

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.
OM nucleic - nucleic search, using sw model
Run on: May 21, 2004, 06:47:57 ; Search time 879 Seconds
(without alignments)
10340.677 Million cell updates/sec
Title: US-09-977-260-1
Perfect score: 2000
Sequence: 1 CTCGTCGAAGTGTGCGAGC.....attctaagactctataaaa 2000

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
Searched: 2953838 seqs, 2272363821 residues
Total number of hits satisfying chosen parameters: 5907676
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA.*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
4: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
6: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq.*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq.*
11: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq.*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
13: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq.*
14: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq.*
15: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq.*
16: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq.*
17: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES					
Result No.	Score	Query Match	Length DB ID	Description	
1	2000	100.0	2000	9	US-09-977-269-1
2	2000	100.0	2000	9	US-09-977-260-1
3	2000	100.0	2000	10	US-09-977-261-1
4	1930	96.5	1989	15	US-10-084-817-341
5	1909.8	95.5	1987	15	US-10-100-217-1
6	1909.8	95.5	1987	17	US-10-641-643-1409
7	1821.8	91.1	2065	15	US-10-103-380A-1
8	1533.8	76.7	1584	13	US-10-280-576-6
9	1377	58.8	1713	15	US-10-187-900-1
10	1096.8	54.8	1518	13	US-10-280-576-24
11	547.6	27.4	1353	13	US-10-280-576-2
12	547.6	27.4	2187	9	US-09-954-531-188
13	547.6	27.4	2187	15	US-10-298-377A-1
14	547.6	27.4	2187	17	US-10-641-643-1267

15	547.6	27.4	2420	13	US-10-388-360-322	Sequence 322, Appl
16	547.6	27.4	2420	15	US-10-177-293-87	Sequence 87, Appl
17	455	22.8	574	15	US-10-029-386-11818	Sequence 11818, A
18	455	22.8	16389	15	US-10-187-900-3	Sequence 3, Appli
19	449	22.4	449	15	US-10-029-386-25518	Sequence 25518, A
20	216.4	10.8	2017	16	US-10-062-674-1776	Sequence 1776, Ap
21	204.2	10.2	2032	16	US-10-366-288-27	Sequence 27, Appl
22	204.2	10.2	2282	13	US-09-805-020-4	Sequence 4, Appli
23	202.6	10.1	1330	12	US-09-997-722-234	Sequence 234, App
24	202.6	10.1	2032	12	US-09-997-722-233	Sequence 233, App
25	192.6	9.6	1824	16	US-10-133-720-1	Sequence 1, Appli
26	192.6	9.6	2015	9	US-09-954-456-1983	Sequence 1983, Ap
27	192.6	9.6	2015	13	US-10-342-887-726	Sequence 726, App
28	192.6	9.6	2015	13	US-10-172-118-726	Sequence 726, App
29	192.6	9.6	2015	15	US-10-007-010-3	Sequence 3, Appli
30	192.6	9.6	2015	17	US-10-641-643-1105	Sequence 1105, Ap
31	192.6	9.6	2341	15	US-10-252-157-140	Sequence 140, App
32	192.6	9.6	2343	16	US-10-062-674-2038	Sequence 2038, Ap
33	191.4	9.6	3393	15	US-10-263-480-1	Sequence 1, Appli
34	191.4	9.6	3450	16	US-10-457-954-5	Sequence 5, Appli
35	191.4	9.6	5327	9	US-09-880-107-3710	Sequence 3710, Ap
36	186.2	9.3	1911	9	US-09-917-800A-1611	Sequence 1611, Ap
37	185	9.2	1505	16	US-10-062-674-1775	Sequence 1775, Ap
38	183	9.2	1574	9	US-09-870-962-12	Sequence 12, Appl
39	184.6	9.2	1590	16	US-10-085-117-18	Sequence 18, Appl
40	184.6	9.2	2354	9	US-09-967-768A-300	Sequence 300, App
41	184.6	9.2	2354	16	US-10-353-690-123	Sequence 123, App
42	184.6	9.2	2354	16	US-10-085-117-17	Sequence 17, Appl
43	184.6	9.2	2354	17	US-10-641-643-1080	Sequence 1080, Ap
44	184.6	9.2	2433	15	US-10-240-965-114	Sequence 114, App
45	181.8	9.1	3840	15	US-10-204-041-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-977-269-1
; Sequence 1, Application US/09977269
; Patent No. US20020082037A1
; GENERAL INFORMATION:
; APPLICANT: ULLRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1260
; CURRENT APPLICATION NUMBER: US/09/977,269
; PRIOR FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2000
; TYPE: DNA
; ORGANISM: Unknown Organism:
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (258)..(1778)
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
; OTHER INFORMATION: Kinase 1
US-09-977-269-1

Query Match	100.0%	Score 2000;	DB 9;	Length 2000;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 2000;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY 1 CTCGCTCCAGTTCGTGCGAGCGGACCGCCCTCGGGGTGTGCGAGCGGCTCGCGAGAGCCC 60				
Db 1 CTCGCTCCAGTTCGTGCGAGCGGACCGCCCTCGGGGTGTGCGAGCGGCTCGCGAGAGCCC 60				
QY 61 TCCTGGGGGGGGCGGCGCGGGCGGGCTCGGGGGGGCGCCCTGTGAGCAGAAACAGGAGAGACC 120				


```

Db      121 PMFHGKISGQEAVALQGPEDGLFLVRESARHPGDIYVCSFGSDVIHYRVLARDGHLLI 180
Qy      121 DEAVFPCNLMDMVHEHYSXDKGAICTKLVRPKRKGTSABEELARAGWMLNLOHLLTGAQ 240
Db      121 DEAVFPCNLMDMVHEHYSXDKGAICTKLVRPKRKGTSABEELARAGWMLNLOHLLTGAQ 240
Qy      241 IGGEFPGAVLQGEYVLCQKVAVKNIKCDVTAAQFLDETAVNTKMOHENVLLGYILLHQGL 300
Db      241 IGGEFPGAVLQGEYVLCQKVAVKNIKCDVTAAQFLDETAVNTKMOHENVLLGYILLHQGL 300
Qy      301 YIYMEHVSXGNLVNPLRTGRALVNTAQLLOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
Db      301 YIYMEHVSXGNLVNPLRTGRALVNTAQLLOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
Qy      361 SEDLVAKVSDPGLAKKERKGLDSSRLPYKWTAPALAKGKFTSKSDVMSFGVLLMEVFSY 420
Db      361 SEDLVAKVSDPGLAKKERKGLDSSRLPYKWTAPALAKGKFTSKSDVMSFGVLLMEVFSY 420
Qy      421 GRAPYPKMSLKEVSEAVKGYRMEPPGCGPGPVHVMSSCWEAPPARPPPRKLAELAR 480
Db      421 GRAPYPKMSLKEVSEAVKGYRMEPPGCGPGPVHVMSSCWEAPPARPPPRKLAELAR 480
Qy      481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db      481 ELRSAGAPASVSGQDADGSTSPRSQEP 507

```

RESULT 2

```

US-09-977-260-2
; Sequence 2, Application US/09977260
; Publication No. US20020192790A1
; GENERAL INFORMATION:
; APPLICANT: ULIRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 036602/1260
; CURRENT APPLICATION NUMBER: US/09/977,260
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; PRIOR FILING DATE: 1994-04-22
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 507
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
; OTHER INFORMATION: Kinase 1
US-09-977-260-2

```

```

Query Match      100.0%; Score 2671; DB 9; Length 507;
Best Local Similarity 100.0%; Pred. No. 5.8e-209;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      241 IGGEFPGAVLQGEYVLCQKVAVKNIKCDVTAAQFLDETAVNTKMOHENVLLGYILLHQGL 300
Db      241 IGGEFPGAVLQGEYVLCQKVAVKNIKCDVTAAQFLDETAVNTKMOHENVLLGYILLHQGL 300
Qy      301 YIYMEHVSXGNLVNPLRTGRALVNTAQLLOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
Db      301 YIYMEHVSXGNLVNPLRTGRALVNTAQLLOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
Qy      361 SEDLVAKVSDPGLAKKERKGLDSSRLPYKWTAPALAKGKFTSKSDVMSFGVLLMEVFSY 420
Db      361 SEDLVAKVSDPGLAKKERKGLDSSRLPYKWTAPALAKGKFTSKSDVMSFGVLLMEVFSY 420
Qy      421 GRAPYPKMSLKEVSEAVKGYRMEPPGCGPGPVHVMSSCWEAPPARPPPRKLAELAR 480
Db      421 GRAPYPKMSLKEVSEAVKGYRMEPPGCGPGPVHVMSSCWEAPPARPPPRKLAELAR 480
Qy      481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db      481 ELRSAGAPASVSGQDADGSTSPRSQEP 507

```

RESULT 3

```

US-09-977-261-2
; Sequence 2, Application US/09977261
; Publication No. US2003054527A1
; GENERAL INFORMATION:
; APPLICANT: ULIRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 036602/1259
; CURRENT APPLICATION NUMBER: US/09/977,261
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; PRIOR FILING DATE: 1994-04-22
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 507
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
; OTHER INFORMATION: Kinase 1
US-09-977-261-2

```

```

Query Match      100.0%; Score 2671; DB 10; Length 507;
Best Local Similarity 100.0%; Pred. No. 5.8e-209;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 19:09:08 ; Search time 49 Seconds
(without alignments)
2879.154 Million cell updates/sec

Title: US-09-977-260-2
Perfect score: 2671
Sequence: 1 MAGRGLSVSWAFKHCDSAE.....PASVSGQDAGSTSPRSQEP 507

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	2671	100.0	507	9	US-09-977-269-2
2	2671	100.0	507	9	US-09-977-260-2
3	2671	100.0	507	10	US-09-977-261-2
4	2445	91.5	527	14	US-10-100-217-2
5	2422	90.7	553	14	US-10-103-380A-2
6	2012	75.3	386	14	US-10-187-900-4
7	2012	75.3	415	14	US-10-187-900-2
8	1245.5	46.6	450	9	US-09-977-269-7
9	1245.5	46.6	450	9	US-09-977-260-7
10	1245.5	46.6	450	10	US-09-977-261-7
11	1245.5	46.6	450	12	US-10-060-065-1
12	1245.5	46.6	450	14	US-10-059-585-42
13	1245.5	46.6	450	14	US-10-177-293-88
14	1245.5	46.6	450	14	US-10-298-377A-2
15	1245.5	46.6	450	35	US-10-116-275-121

ALIGNMENTS

RESULT 1

US-09-977-269-2
; Sequence 2, Application US/09977269
; Patent No. US20020082037A1
; GENERAL INFORMATION:
; APPLICANT: ULLRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1260
; CURRENT APPLICATION NUMBER: US/09/977,269
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; PRIOR FILING DATE: 1994-04-22
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 507
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURES:
; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
; OTHER INFORMATION: kinase 1
US-09-977-269-2

Query Match	100.0%	Score 2671;	DB 9;	Length 507;
Best Local Similarity	100.0%;	Pred. No. 5.8e-209;		
Matches 507;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MAGRGLSVSWAFKHCDSAEELPRVSPRFLRAWHPPPVSAAMPTRRWAPGTCITKCBHT	60	Sequence 265, Appl
DB	1	MAGRGLSVSWAFKHCDSAEELPRVSPRFLRAWHPPPVSAAMPTRRWAPGTCITKCBHT	60	Sequence 15, Appl
QY	61	RPKPGELAFKRGDVVTILEACENKSWYRVKHTSGQGLLAAGALRREALSADPKLSLM	120	Sequence 9, Appl
DB	61	RPKPGELAFKRGDVVTILEACENKSWYRVKHTSGQGLLAAGALRREALSADPKLSLX	120	Sequence 3, Appl
QY	221	PWFEGKLSGGFAVQQLQPPEDGI:FLVRESARHPGDYVLCVSGFRDVIHYRVLRDGHLLTI	180	Sequence 27, Appl

QY 361 SEDLVAKVSDPGLAKAERKGLDSSRLPVKWTAPBALXHGKFTSKSDVWVSFGVLLWEVFSY 420
Db 361 SEDLVAKVSDPGLAKAERKGLDSSRLPVKWTAPBALXHGKFTSKSDVWVSFGVLLWEVFSY 420
QY 421 GRAPYPKMSLKEVSEAEKGYRMEPPGCGPQVHVLMSWCWEABPARRPPFRKLAELKLAR 480
Db 421 GRAPYPKMSLKEVSEAEKGYRMEPPGCGPQVHVLMSWCWEABPARRPPFRKLAELKLAR 480
QY 481 ELSAGAPASVSGQDADGSTSPRSQEP 507
Db 481 ELSAGAPASVSGQDADGSTSPRSQEP 507

RESULT 4

US-10-100-217-2
; Sequence 2, Application US/10100217
; Publication No. US20030181404A1
; GENERAL INFORMATION:
; APPLICANT: Avraham, Hava
; APPLICANT: Groopman, Jerome E.
; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT OF
; TITLE OF INVENTION: BREAST CANCER
; FILE REFERENCE: NEDH97-01PAZ
; CURRENT APPLICATION NUMBER: US/10/100,217
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/315,929
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 08/876,882
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/035,228
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-01-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 527
; TYPE: PRY
; ORGANISM: Homo sapiens
US-10-100-217-2

Query Match 91.5%; Score 2445; DB 14; Length 527;
Best Local Similarity 93.5%; Pred. No. 1.6e-190;
Matches 472; Conservative 1; Mismatches 18; Indels 14; Gaps 2;
QY 1 MAGGSLVSWRAFHCDSABELPRVSPRFLEAWHPPPVVSARMPTRWAPGTCITKCEHT 60
Db 1 MAGGSLVSWRAFHCDSABELPRVSPRFLEAWHPPPVVSARMPTRWAPGTCITKCEHT 60
QY 61 RPKGELAFKRGDVVTILEACENKSWYRVKHHTSQGGLLAAGALRREALSADPKLSLM 120
Db 61 RPKGELAFKRGDVVTILEACENKSWYRVKHHTSQGGLLAAGALRREALSADPKLSLM 120
QY 121 PWFHGKISGQEAQQVQLOPPEDGFLVRESARHPGDYVLCVSGFRDVIHYRVLHRDGHITI 180
Db 121 PWFHGKISGQEAQQVQLOPPEDGFLVRESARHPGDYVLCVSGFRDVIHYRVLHRDGHITI 180
QY 181 DEAVFFCNLMDWHEYSKOGAICTKLVRPKRKGTSKSAEELARAGWLLNLQHLTGAQ 240
Db 181 DEAVFFCNLMDWHEYSKOGAICTKLVRPKRKGTSKSAEELARAGWLLNLQHLTGAQ 240
QY 241 IGESEFGAVLQGEYLQGVAVKNIKCDVTAQAFIDETAVMTKMQHENLVRLLGVILH 300
Db 241 IGESEFGAVLQGEYLQGVAVKNIKCDVTAQAFIDETAVMTKMQHENLVRLLGVILH 300
QY 301 YIVMEHVSNGNLVNFRTGRALVNTAQLLOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
Db 301 YIVMEHVSNGNLVNFRTGRALVNTAQLLOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
QY 361 SEDLVAKVSDPGLAKAERKGLDSSRLPVKWTAPBALXHGKFTSKSDVWVSFGVLLWEVFSY 420
Db 361 SEDLVAKVSDPGLAKAERKGLDSSRLPVKWTAPBALXHGKFTSKSDVWVSFGVLLWEVFSY 420
QY 421 GRAPYPKMSLKEVSEAEKGYRMEPPGCGPQVHVLMSWCWEABPARRPPFRKLAELKLAR 480

Db 420 GRAPYPKMSLKEVSEAEKGYRMEPPGCGPQVHVLMSWCWEABPARRPPFRGHP----- 469
QY 481 ELSAGAPASVSGQDADGSTSPRSQ 505
Db 470 ---SANNPRSWPGSYAVQVQPPPSQ 491

RESULT 5

US-10-103-380A-2
; Sequence 2, Application US/10103380A
; Publication No. US20030186242A1
; GENERAL INFORMATION:
; APPLICANT: Dal, Ken-Shwo
; TITLE OF INVENTION: HUMAN MEGAKARYOCYTE-ASSOCIATED TYROSINE KINASE (MAYK)-RELATED GE
; TITLE OF INVENTION: VARIANT ASSOCIATED WITH LUNG CANCERS
; FILE REFERENCE: U 013931-2
; CURRENT APPLICATION NUMBER: US/10/103,380A
; CURRENT FILING DATE: 2002-08-08
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 553
; TYPE: PRY
; ORGANISM: Homo sapiens
US-10-103-380A-2

Query Match 90.7%; Score 2422; DB 14; Length 553;
Best Local Similarity 88.9%; Pred. No. 1.3e-188;
Matches 472; Conservative 1; Mismatches 18; Indels 40; Gaps 3;

QY 1 MAGGSLVSWRAFHCDSABELPRVSPRFLEAWHPPPVVSARMPTRWAPGTCITKCEHT 60
Db 1 MAGGSLVSWRAFHCDSABELPRVSPRFLEAWHPPPVVSARMPTRWAPGTCITKCEHT 60
QY 61 RPKGELAFKRGDVVTILEACENKSWYRVKHHTSQGGLLAAGALRREALSADPKLSLM 120
Db 61 RPKGELAFKRGDVVTILEACENKSWYRVKHHTSQGGLLAAGALRREALSADPKLSLM 120
QY 121 PWFHGKISGQEAQQVQLOPPEDGFLVRESARHPGDYVLCVSGFRDVIHYRVLHRDGHITI 180
Db 121 PWFHGKISGQEAQQVQLOPPEDGFLVRESARHPGDYVLCVSGFRDVIHYRVLHRDGHITI 180
QY 181 DEAVFFCNLMDWHEYSKOGAICTKLVRPKRKGTSKSAEELARAGWLLNLQHLTGAQ 214
Db 181 DEAVFFCNLMDWHEYSKOGAICTKLVRPKRKGTSKSAEELARAGWLLNLQHLTGAQ 214
QY 215 GTSKSAEELARAGWLLNLQHLTGAQIGEGEFGAVLQGEYLQGVAVKNIKCDVTAQAFI 274
Db 241 GTSKSAEELARAGWLLNLQHLTGAQIGEGEFGAVLQGEYLQGVAVKNIKCDVTAQAFI 300
QY 275 DETAVMTKMQHENLVRLLGVILHGLYIVMEHVSNGNLVNFRTGRALVNTAQLLOFSL 334
Db 301 DETAVMTKMQHENLVRLLGVILHGLYIVMEHVSNGNLVNFRTGRALVNTAQLLOFSL 360
QY 335 HVAEGMEYLSKKLVHRDLAARNILVSEDLVAKVSDPGLAKAERKGLDSSRLPVKWTAP 394
Db 361 HVAEGMEYLSKKLVHRDLAARNILVSEDLVAKVSDPGLAKAERKGLDSSRLPVKWTAP 420
QY 395 ALKEGKFTSKSDVWVSFGVLLWEVFSYGRAPYPMKSLKEVSEAEKGYRMEPPGCGPQVH 454
Db 421 ALKEGKFTSKSDVWVSFGVLLWEVFSYGRAPYPMKSLKEVSEAEKGYRMEPPGCGPQVH 479
QY 455 VLMSSCWEABPARRPPFRKLAELKLARLRSAGAPASVSGQDADGSTSPRSQ 505
Db 480 VLMSSCWEABPARRPPFRKLAELKLARLRSAGAPASVSGQDADGSTSPRSQ 517

RESULT 6

US-10-187-900-4
; Sequence 4, Application US/10187900
; Publication No. US20030166221A1
; GENERAL INFORMATION:

APPLICANT: BEASLEY, Ellen M. et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
THEREOF
FILE REFERENCE: CL001061
CURRENT APPLICATION NUMBER: US/10/187,900
CURRENT FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 386
TYPE: PRT
ORGANISM: Human
US-10-187-900-4

Query Match 75.3%; Score 2012; DB 14; Length 386;
Best Local Similarity 100.0%; Pred. No. 2e-155;
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 122 WFGKISQGEAVQQLQPPEDGLFLVRESARHPGDIYVLCVSGFRDVIHYRVLRDGHLLTID 181
DB 1 WFGKISQGEAVQQLQPPEDGLFLVRESARHPGDIYVLCVSGFRDVIHYRVLRDGHLLTID 60

QY 182 EAVFFCNLMDMVEHYSKDKGAICTKLVPRKRGHTKSAEELARAGWLLNLOHLLTGAQI 241
DB 61 EAVFFCNLMDMVEHYSKDKGAICTKLVPRKRGHTKSAEELARAGWLLNLOHLLTGAQI 120

QY 242 GEGEFAVLQGEYLQGVKAVKIKCDVTAAQAFDEAVMTKMOHENLVRLLGLVILHOGY 301
DB 121 GEGEFAVLQGEYLQGVKAVKIKCDVTAAQAFDEAVMTKMOHENLVRLLGLVILHOGY 180

QY 302 IYMEHVSNGNLNVLTRGRALVNTAQLQFSLHVAEGMEYLESKKLVHRDLAARNILVS 361
DB 181 IYMEHVSNGNLNVLTRGRALVNTAQLQFSLHVAEGMEYLESKKLVHRDLAARNILVS 240

QY 362 EDLVAKVSDPFLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVMSFGVLLWEVFSYG 421
DB 241 EDLVAKVSDPFLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVMSFGVLLWEVFSYG 300

QY 422 RAPIPKMSLKEVSEAVEKGYRMEPPGCGPVPVHLMSSCWEAEPARRPPFRKLAELARE 481
DB 301 RAPIPKMSLKEVSEAVEKGYRMEPPGCGPVPVHLMSSCWEAEPARRPPFRKLAELARE 360

QY 482 LRSAGAPASVSGQADGTSRPSQEP 507
DB 361 LRSAGAPASVSGQADGTSRPSQEP 386

RESULT 7
US-10-187-900-2
Sequence 2, Application US/10187900
Publication No. US2003C166221A1
GENERAL INFORMATION:
APPLICANT: BEASLEY, Ellen M. et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
THEREOF
FILE REFERENCE: CL001061
CURRENT APPLICATION NUMBER: US/10/187,900
CURRENT FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 415
TYPE: PRT
ORGANISM: Human
US-10-187-900-2

Query Match 75.3%; Score 2012; DB 14; Length 415;
Best Local Similarity 100.0%; Pred. No. 2.2e-155;
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 122 WFGKISQGEAVQQLQPPEDGLFLVRESARHPGDIYVLCVSGFRDVIHYRVLRDGHLLTID 181

DB 30 WFGKISQGEAVQQLQPPEDGLFLVRESARHPGDIYVLCVSGFRDVIHYRVLRDGHLLTID 89
QY 182 EAVFFCNLMDMVEHYSKDKGAICTKLVPRKRGHTKSAEELARAGWLLNLOHLLTGAQI 241
DB 90 EAVFFCNLMDMVEHYSKDKGAICTKLVPRKRGHTKSAEELARAGWLLNLOHLLTGAQI 149
QY 242 GEGEFAVLQGEYLQGVKAVKIKCDVTAAQAFDEAVMTKMOHENLVRLLGLVILHOGY 301
DB 150 GEGEFAVLQGEYLQGVKAVKIKCDVTAAQAFDEAVMTKMOHENLVRLLGLVILHOGY 209
QY 302 IYMEHVSNGNLNVLTRGRALVNTAQLQFSLHVAEGMEYLESKKLVHRDLAARNILVS 361
DB 210 IYMEHVSNGNLNVLTRGRALVNTAQLQFSLHVAEGMEYLESKKLVHRDLAARNILVS 269
QY 362 EDLVAKVSDPFLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVMSFGVLLWEVFSYG 421
DB 270 EDLVAKVSDPFLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVMSFGVLLWEVFSYG 329
QY 422 RAPIPKMSLKEVSEAVEKGYRMEPPGCGPVPVHLMSSCWEAEPARRPPFRKLAELARE 481
DB 330 RAPIPKMSLKEVSEAVEKGYRMEPPGCGPVPVHLMSSCWEAEPARRPPFRKLAELARE 389
QY 482 LRSAGAPASVSGQADGTSRPSQEP 507
DB 390 LRSAGAPASVSGQADGTSRPSQEP 415

RESULT 8
US-09-977-269-7
Sequence 7, Application US/09977269
Patent No. US20020082037A1
GENERAL INFORMATION:
APPLICANT: ULLRICH, AXEL
APPLICANT: GISHIZKY, MIKHAIL
APPLICANT: SURES, IRMINGARD
TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
FILE REFERENCE: 038602/1260
CURRENT APPLICATION NUMBER: US/09/977,269
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 08/232,545
PRIOR FILING DATE: 1994-04-22
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patent in Ver. 2.1
SEQ ID NO 7
LENGTH: 450
TYPE: PRT
ORGANISM: Homo sapiens
US-09-977-269-7

Query Match 46.6%; Score 1245.5; DB 9; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTCTCTKCEHTRKPGSLAFKGDVVTILAEACENKSWYRVKHTSQEGSLAAGALR 106
DB 8 WSGTECIAKYNPHGTABQDLFPCKGDVITIVATKDPNWKAKNKV-GREGIIPANYVQ 66

QY 107 EREALSADPKLSLMPWFHKGISQGEAVQQLQPPEDGLFLVRESARHPGDIYVLCVSGRDV 166
DB 67 KRGGVKAGTKLSLMPWFHKGITREQAERLLYPETGLFLVRESNYPGDYTLQVSCDGK 126

QY 167 IYHVLVRDGHLLTIDAVPPCNLMDMVEHYSKDKGAICTKLVPRKRGHTKSAEELARE 236
DB 127 EHYRIMYHASKLSIDEEVYFENLMQLVHYTSDADGLCTRLIKPKVNEGTVAAQDFYRS 186

QY 227 GWLLNLOHLLTGAQIGEFGFAGVLQGEYLQGVKAVKIKCDVTAAQAFDEAVMTKMOHE 286
DB 187 GWLLNLOHLLTGAQIGEFGFAGVLQGEYLQGVKAVKIKCDVTAAQAFDEAVMTKMOHE 246

QY 287 NIWRLGLVILHOGY-GHYIYMEHVSNGNLNVLTRGRALVNTAQLQFSLHVAEGMEYLES 344
DB 247 NIWRLGLVILHOGY-GHYIYMEHVSNGNLNVLTRGRALVNTAQLQFSLHVAEGMEYLES 306

Qy 345 SKLIVHRDLAARNILVSDILVAKVSDPGLAKAERKGLDSSSLPVKWTAPAEALKEGKFTSK 404
Db 307 GNNFVHRDLAARNILVSDILVAKVSDPGLAKAERKGLDSSSLPVKWTAPAEALKEGKFTSK 366
Qy 405 SDVMSFVLLMEVFSYGRAPYPMKSLKEVSBVKEGKYRVEPEGCPGVHVMSSCWAE 464
Db 367 SDVMSFVLLMEVFSYGRAPYPMKSLKEVSBVKEGKYRVEPEGCPGVHVMSSCWAE 426
Qy 465 PARPPPRKLAEL 478
Db 427 AAMRPSFLQREQL 440

RESULT 9
US-09-977-260-7
; Sequence 7, Application US/09977260
; Publication No. US20020192790A1
; GENERAL INFORMATION:
; APPLICANT: JULLRICH, AXEL
; APPLICANT: SURES, IRVINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1260
; CURRENT APPLICATION NUMBER: US/09/977,260
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; PRIOR FILING DATE: 1994-04-22
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-977-260-7

Query Match 46.6%; Score 1245.5; DB 9; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

Qy 47 WAPGTQCITKCEHTRPKPGELAFKRGDVVITILEACENKSWYRVKHTSGQGGLLAAGLR 106
Db 8 WPSGTECIATKNYFHTGABQDLFPCKGDVLTIVAVTKDNNWKAKKV-GREGIIPANYVQ 66
Qy 107 EREALSDPKLSLMPWPHGKISGQEAQQLOPPEDGLFLVRESARHPGDYVLCVSGRDV 166
Db 67 KREGVKAGTKLSLMPWPHGKITRQAEKLLYPPETGLFLVRESNYPGDYTLVCSCDKV 126
Qy 167 IHYVLRDGHLLTIDEAVFFCNLMVMVHYSKDKGAICTKLVRPKRKHGKTSABEELARA 226
Db 127 EHYRIMVHASKLSIDEEVYFENLMQVHEHYTSDADGLCTRLIKPKVMEGTVAADQEFYRS 186
Qy 227 GWLNLQHLTLGAQIGEGFAGVLQGEYLGOKVAVNKKCDVTAQAFIDEAVMTKMOHE 286
Db 187 GWALNMKELKLLQITIGKEFGDVMGLDVRGNKAVKCIKNDATAQAFLAESVMTQLRHS 246
Qy 287 NLVLLGVILHQ--GLYIVMEHVSNGNVLNPLRTRGRALVNTAQLQPSLHVACMEYLE 344
Db 247 NLVQLLGVIVBEKGGLYIVTEYMAKGLSLVDYLRGRGRSVLGGDCLLKPSLDVCEAMEYLE 306
Qy 345 SKLIVHRDLAARNILVSDILVAKVSDPGLAKAERKGLDSSSLPVKWTAPAEALKEGKFTSK 404
Db 307 GNNFVHRDLAARNILVSDILVAKVSDPGLAKAERKGLDSSSLPVKWTAPAEALKEGKFTSK 366
Qy 405 SDVMSFVLLMEVFSYGRAPYPMKSLKEVSBVKEGKYRVEPEGCPGVHVMSSCWAE 464
Db 367 SDVMSFVLLMEVFSYGRAPYPMKSLKEVSBVKEGKYRVEPEGCPGVHVMSSCWAE 426
Qy 465 PARPPPRKLAEL 478
Db 427 AAMRPSFLQREQL 440

RESULT 10
US-09-977-261-7
; Sequence 7, Application US/09977261
; Publication No. US20030054527A1
; GENERAL INFORMATION:
; APPLICANT: ULLRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRVINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1259
; CURRENT APPLICATION NUMBER: US/09/977,261
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; PRIOR FILING DATE: 1994-04-22
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-977-261-7

Query Match 45.6%; Score 1245.5; DB 10; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

Qy 47 WAPGTQCITKCEHTRPKPGELAFKRGDVVITILEACENKSWYRVKHTSGQGGLLAAGLR 106
Db 8 WPSGTECIATKNYFHTGABQDLFPCKGDVLTIVAVTKDNNWKAKKV-GREGIIPANYVQ 66
Qy 107 EREALSDPKLSLMPWPHGKISGQEAQQLOPPEDGLFLVRESARHPGDYVLCVSGRDV 166
Db 67 KREGVKAGTKLSLMPWPHGKITRQAEKLLYPPETGLFLVRESNYPGDYTLVCSCDKV 126
Qy 167 IHYVLRDGHLLTIDEAVFFCNLMVMVHYSKDKGAICTKLVRPKRKHGKTSABEELARA 226
Db 127 EHYRIMVHASKLSIDEEVYFENLMQVHEHYTSDADGLCTRLIKPKVMEGTVAADQEFYRS 186
Qy 227 GWLNLQHLTLGAQIGEGFAGVLQGEYLGOKVAVNKKCDVTAQAFIDEAVMTKMOHE 286
Db 187 GWALNMKELKLLQITIGKEFGDVMGLDVRGNKAVKCIKNDATAQAFLAESVMTQLRHS 246
Qy 287 NLVLLGVILHQ--GLYIVMEHVSNGNVLNPLRTRGRALVNTAQLQPSLHVACMEYLE 344
Db 247 NLVQLLGVIVBEKGGLYIVTEYMAKGLSLVDYLRGRGRSVLGGDCLLKPSLDVCEAMEYLE 306
Qy 345 SKLIVHRDLAARNILVSDILVAKVSDPGLAKAERKGLDSSSLPVKWTAPAEALKEGKFTSK 404
Db 307 GNNFVHRDLAARNILVSDILVAKVSDPGLAKAERKGLDSSSLPVKWTAPAEALKEGKFTSK 366
Qy 405 SDVMSFVLLMEVFSYGRAPYPMKSLKEVSBVKEGKYRVEPEGCPGVHVMSSCWAE 464
Db 367 SDVMSFVLLMEVFSYGRAPYPMKSLKEVSBVKEGKYRVEPEGCPGVHVMSSCWAE 426
Qy 465 PARPPPRKLAEL 478
Db 427 AAMRPSFLQREQL 440

RESULT 11
US-10-060-065-21
; Sequence 21, Application US/10060065
; Publication No. US20030017480A1
; GENERAL INFORMATION:
; APPLICANT: Toshio Ota
; APPLICANT: Takao Isogai
; APPLICANT: Tetsuo Nishikawa
; APPLICANT: Koji Hayashi
; APPLICANT: Kaoru Otsuka
; APPLICANT: Jun-ichi Yamamoto
; APPLICANT: Shizuko Ishii
; APPLICANT: Tomoyasu Sugiyama
; APPLICANT: Ai Wakamatsu

```
; APPLICANT: Keiichi Nagai
; APPLICANT: Tetsuji Otsuki
; APPLICANT: Shin-ichi Furahashi
; APPLICANT: Chiaki Senoo
; APPLICANT: Jun-ichi Nezu
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEIN KINASE/PROTEIN PHOSPHATASE
; FILE REFERENCE: 06501-099002
; CURRENT APPLICATION NUMBER: US/10/060,065
; CURRENT FILING DATE: 2002-01-29
; PRIOR APPLICATION NUMBER: PCT/JP00/05061
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 60/159,590
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US 60/183,322
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: JP 11-248036
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: JP 2000-118776
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: JP 2000-183767
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: JP 2000-341899
; PRIOR FILING DATE: 2000-06-09
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 21
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-065-21
```

```
Query Match 45.6%; Score 1245.5; DB 12; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;
```

```
Qy 47 WAPGTQCITKCEHTRPKPGELARFGKGVVTTILEACENKSWYRVKHHTSGQGELLAAGALR 106
Db 8 WPSGTECIAKYNFHTGTAQDLFPCKGDLTVAVTKDPNWKAKNKV-GREGIIPANVQ 66

Qy 107 EREALSADPKLSLMPWFHFGKISGOEAVQOQLPPEDGLFLVRESARHPGDYVLCVSFGSDV 166
Db 67 KREGVKAGTKLSLMPWFHFGKITRQAEERLLYPPETGLFLVRESINYPGDYVLCVSCDGK 126

Qy 167 IHYRVLRHDGHLTIDEAVFFCNLMDMVHYHSGDKGAICTKLVRPKRHGHTKSABEELARA 226
Db 127 EHYEIXYHASKLSLIDEVIFENLMOLVHYTSDAGLCGLTRLIKPKVMEGTVAQAQDEFYRS 186

Qy 227 GWLLNLQHLTLGAQTIGEFGFAGVLQGEYLQGVAVVNIKCDVTAQAFLDETAVMTKQHE 286
Db 187 GWALNMKELKLLQTIGKGEFGDVMLDYRGKNVAVKCIKNDATAQAFLAASVMTQLRHS 246

Qy 287 NLVRLGLVLHQ--GLYIVMEHVSNGNLVNFRLTRGRALVNTAQLLOFSLHVAEGMEYLE 344
Db 247 NLVQLLGVIVBEKGLLYTVETMAKGSIVDYLRSGRSLVGGDCCLLKXSLDVCEAMEYLE 306

Qy 345 SKKLVRDLAARNILVSEDLVAKVSDPLGLAKAERKGLDSSLPVKWTAPALKHGKFTSK 404
Db 307 GNNFVHRDLAARNVLVSEDNVAKVSDPLGLTKEASTQDTGKLPVKWTAPALREKKFSTK 366

Qy 405 SDVWSFGVLLMEVFSYGRAPYKMSLKEVSAVEKGYRMEPEPGCGPVPVHVMSSCWAE 464
Db 367 SDVWSFGVLLMEIYSFGRVPIPRILKDVVPRVEKGYKMDAPDGCPPAVYVWKNCHLD 426

Qy 465 PARPPPRKLAELK 478
Db 427 AAVRPSFLQLRQQL 440
```

```
RESULT 12
US-10-059-585-42
; Sequence 42, Application US/10059585
; Publication No. US20030082776A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Ota, Toshio
; APPLICANT: Isogai, Takao
; APPLICANT: Nishikawa, Tetsuo
; APPLICANT: Hayashi, Koji
; APPLICANT: Otsuka, Kaoru
; APPLICANT: Yamamoto, Jun-ichi
; APPLICANT: Ishii, Shizuko
; APPLICANT: Sugiyama, Tomoyasu
; APPLICANT: Wakamatsu, Ai
; APPLICANT: Nagai, Keiichi
; APPLICANT: Otsuki, Tetsuji
; APPLICANT: Funahashi, Shin-ichi
; APPLICANT: Senoo, Chiaki
; APPLICANT: Nezu, Jun-ichi
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEIN
; TITLE OF INVENTION: KINASE/PROTEIN PHOSPHATASE
; FILE REFERENCE: 06501-099001
; CURRENT APPLICATION NUMBER: US/10/059,585
; CURRENT FILING DATE: 2002-01-29
; PRIOR APPLICATION NUMBER: PCT/JP00/05060
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 60/183,322
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: US 60/159,590
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: JP 2000-118776
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: JP 2000-183767
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: JP 11-248036
; PRIOR FILING DATE: 1999-07-29
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-059-585-42
```

```
Query Match 46.6%; Score 1245.5; DB 14; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

Qy 47 WAPGTQCITKCEHTRPKPGELARFGKGVVTTILEACENKSWYRVKHHTSGQGELLAAGALR 106
Db 8 WPSGTECIAKYNFHTGTAQDLFPCKGDLTVAVTKDPNWKAKNKV-GREGIIPANVQ 66

Qy 107 EREALSADPKLSLMPWFHFGKISGOEAVQOQLPPEDGLFLVRESARHPGDYVLCVSFGSDV 166
Db 67 KREGVKAGTKLSLMPWFHFGKITRQAEERLLYPPETGLFLVRESINYPGDYVLCVSCDGK 126

Qy 167 IHYRVLRHDGHLTIDEAVFFCNLMDMVHYHSGDKGAICTKLVRPKRHGHTKSABEELARA 226
Db 127 EHYEIXYHASKLSLIDEVIFENLMOLVHYTSDAGLCGLTRLIKPKVMEGTVAQAQDEFYRS 186

Qy 227 GWLLNLQHLTLGAQTIGEFGFAGVLQGEYLQGVAVVNIKCDVTAQAFLDETAVMTKQHE 286
Db 187 GWALNMKELKLLQTIGKGEFGDVMLDYRGKNVAVKCIKNDATAQAFLAASVMTQLRHS 246

Qy 287 NLVRLGLVLHQ--GLYIVMEHVSNGNLVNFRLTRGRALVNTAQLLOFSLHVAEGMEYLE 344
Db 247 NLVQLLGVIVBEKGLLYTVETMAKGSIVDYLRSGRSLVGGDCCLLKXSLDVCEAMEYLE 306

Qy 345 SKKLVRDLAARNILVSEDLVAKVSDPLGLAKAERKGLDSSLPVKWTAPALKHGKFTSK 404
Db 307 GNNFVHRDLAARNVLVSEDNVAKVSDPLGLTKEASTQDTGKLPVKWTAPALREKKFSTK 366

Qy 405 SDVWSFGVLLMEVFSYGRAPYKMSLKEVSAVEKGYRMEPEPGCGPVPVHVMSSCWAE 464
Db 367 SDVWSFGVLLMEIYSFGRVPIPRILKDVVPRVEKGYKMDAPDGCPPAVYVWKNCHLD 426

Qy 465 PARPPPRKLAELK 478
Db 427 AAVRPSFLQLRQQL 440
```



```
Db      427 AAMPSPFLQRLREQ 440

RESULT 13
US-10-177-293-88
; Sequence 88, Application US/10177293
; Publication No. US20030124128A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Liilie, Karen
; APPLICANT: Zhao, Xue-ri
; APPLICANT: Ganavarpu, Manjula
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Mertens, Maureen
; APPLICANT: Myer, Vic
; APPLICANT: Wang, Youzhen
; APPLICANT: Xu, Yongyao
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Monahan, John
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Bast Jr., Robert C.
; APPLICANT: Hortobagyi, Gabriel N.
; APPLICANT: Pusztai, Lajos
; APPLICANT: Meric, Funda
; APPLICANT: Shih, Aysegul
; APPLICANT: Mills, Gordon B.
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
; PREVENTION, AND THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-038
; CURRENT APPLICATION NUMBER: US/10/177,293
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,887
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/301,572
; PRIOR FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: US 60/306,501
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/325,002
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/362,585
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/xxx,xxx
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 88
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-177-293-88

Query Match      46.6%; Score 1245.5; DB 14; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

Qy      47 WAPGTCITKCEHTRPKPGELAFKPGDVVITLACENKSWYRVKHHYSGOGLLAAGALR 106
Db      8 WPSGTECIAKYNFHGTAEQDLPPCKGDLVITAVTKDPNNWYKAKNV-GREGIIPANVYQ 66

Qy      107 EREALSDPKLSLMPHFHKGISQGEAVQQLPPEDGGLFLVRESARHPDGYVLCVSFGRDV 166
Db      67 KREGVKAGTGLSLMPHFHKGITREQAERLLYPPETGGLFLVRESNTYPGDYVLCVSCDGKV 126

Qy      167 IHVRLHRDGHLTIDEAVFFCNLMDMVHYHYSKDKGALCTKLVPRKRGHTKSAEELARA 226
Db      67 KREGVKAGTGLSLMPHFHKGITREQAERLLYPPETGGLFLVRESNTYPGDYVLCVSCDGKV 126

Qy      167 IHVRLHRDGHLTIDEAVFFCNLMDMVHYHYSKDKGALCTKLVPRKRGHTKSAEELARA 226
Db      127 EHYRMVHASKLSIDEVYFENMLQVHEHTSDADGLCTRLIKKVMWEGTVAQADEFYRS 186

Qy      227 GWLNLQHLTLGAIGEGEFGAVLQGEYVLOGQKVAVKNIKCDVTAQAFDLDTAVMTKQOHE 286
Db      127 EHYRMVHASKLSIDEVYFENMLQVHEHTSDADGLCTRLIKKVMWEGTVAQADEFYRS 186

Qy      227 GWLNLQHLTLGAIGEGEFGAVLQGEYVLOGQKVAVKNIKCDVTAQAFDLDTAVMTKQOHE 286
Db      187 GWALNMKELKLLQITQKGEFGDVMGLDYGRGNKVAVKCIKNDATAQAFLAASVMTQLRHS 246

Qy      287 NLVRLGLVILHQ--GLYIVMEHVSKNLNVNPLRTGRGALVNTAQLOPFLHVAEGMEYLE 344
Db      187 GWALNMKELKLLQITQKGEFGDVMGLDYGRGNKVAVKCIKNDATAQAFLAASVMTQLRHS 246

Qy      287 NLVRLGLVILHQ--GLYIVMEHVSKNLNVNPLRTGRGALVNTAQLOPFLHVAEGMEYLE 344
Db      287 NLVRLGLVILHQ--GLYIVMEHVSKNLNVNPLRTGRGALVNTAQLOPFLHVAEGMEYLE 344
```

```
Db      247 NLVQLLGVIVBEKGGLYIVTEYMAKGLSDVYLSRGRSVLGGDCLLKFSLDVCEAMEYLE 306
Qy      345 SKKLVRHDLAARNILVSEDLVAKVSDFLAKARERKGLDSSRLPVKWTAPALKHGKFTSK 404
Db      307 GNNFVHSDLAARNVLVSEDNVAKVSDFLAKARERKGLDSSRLPVKWTAPALKHGKFTSK 366
Qy      405 SDVWSFGVLLWEVFSYGRAPYPRKMSLKEVSEAVKGYRMEBPPEGCPGVHVMSSWEAE 464
Db      367 SDVWSFGVLLWEVFSYGRAPYPRKMSLKEVSEAVKGYRMEBPPEGCPGVHVMSSWEAE 426
Qy      465 PARRPPPKLAELK 478
Db      427 AAMPSPFLQRLREQ 440

RESULT 14
US-10-298-377A-2
; Sequence 2, Application US/10298377A
; Publication No. US20030130209A1
; GENERAL INFORMATION:
; APPLICANT: The Scripps Research Institute
; APPLICANT: Cheresch, David A.
; APPLICANT: Paul, Robert
; APPLICANT: Eliceiri, Brian
; TITLE OF INVENTION: Method of Treatment of Myocardial
; TITLE OF INVENTION: Infarction
; FILE REFERENCE: TSRI-651.5
; CURRENT APPLICATION NUMBER: US/10/298,377A
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 10/298,377
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 05/470,891
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 05/538,248
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: PCT/US99/11780
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/087,220
; PRIOR FILING DATE: 1998-05-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 450
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-298-377A-2

Query Match      46.6%; Score 1245.5; DB 14; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

Qy      47 WAPGTCITKCEHTRPKPGELAFKPGDVVITLACENKSWYRVKHHYSGOGLLAAGALR 106
Db      8 WPSGTECIAKYNFHGTAEQDLPPCKGDLVITAVTKDPNNWYKAKNV-GREGIIPANVYQ 66

Qy      107 EREALSDPKLSLMPHFHKGISQGEAVQQLPPEDGGLFLVRESARHPDGYVLCVSFGRDV 166
Db      67 KREGVKAGTGLSLMPHFHKGITREQAERLLYPPETGGLFLVRESNTYPGDYVLCVSCDGKV 126

Qy      167 IHVRLHRDGHLTIDEAVFFCNLMDMVHYHYSKDKGALCTKLVPRKRGHTKSAEELARA 226
Db      127 EHYRMVHASKLSIDEVYFENMLQVHEHTSDADGLCTRLIKKVMWEGTVAQADEFYRS 186

Qy      227 GWLNLQHLTLGAIGEGEFGAVLQGEYVLOGQKVAVKNIKCDVTAQAFDLDTAVMTKQOHE 286
Db      187 GWALNMKELKLLQITQKGEFGDVMGLDYGRGNKVAVKCIKNDATAQAFLAASVMTQLRHS 246

Qy      287 NLVRLGLVILHQ--GLYIVMEHVSKNLNVNPLRTGRGALVNTAQLOPFLHVAEGMEYLE 344
Db      247 NLVQLLGVIVBEKGGLYIVTEYMAKGLSDVYLSRGRSVLGGDCLLKFSLDVCEAMEYLE 306

Qy      345 SKKLVRHDLAARNILVSEDLVAKVSDFLAKARERKGLDSSRLPVKWTAPALKHGKFTSK 404
```

Job time : 50 secs

Db 307 GNTFVHEDLAARNVLVSEDNNAKVSDFGLTKRASSTODTGKLPVKWTAPALREKKFSTK 366
Qy 405 SDVMSFGVLLWEVFSYGRAPYKXSLKEVSEAVEKGYRMEPPBEGCPGPVHVLMSSCWEAE 464
Db 367 SDVMSFGVLLWEVFSYGRVDPYPRIPKDVVPRVEKGYKMDADPGCPPAVVEVMKNCWHL 426
Qy 465 PARPPFRKLAEKL 478
Db 427 AAMPSPFLQREQL 440

RESULT 15
US-10-116-275-121
; Sequence 121, Application US/10116275
; Publication No. US20030211476A1
; GENERAL INFORMATION:
; APPLICANT: Elan Pharmaceutical Technology
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Brayden, David
; APPLICANT: Byrne, Daragh
; APPLICANT: Lambkin, Imelda
; APPLICANT: Higgins, Lisa
; TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and
; TITLE OF INVENTION: Compositions Targeting Peyer's Patches and M Cell Receptors
; FILE REFERENCE: E1067/20087
; CURRENT APPLICATION NUMBER: US/10/116,275
; CURRENT FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 121
; LENGTH: 450
; TYPE: PAT
; ORGANISM: Homo sapiens
US-10-116-275-121

Query Match 46.6%; Score 1245.5; DB 15; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;
Qy 47 WAPGTQCITKCEHTRPKEGELAFKRGDVVITILEACENKSWYRVKHTSGQBGJLAAGALR 106
Db 8 WESGTECIAKYNFHTAQBDLPFCCKGDVITVAVTKDENWYKAKNKV-CREGIIPANTVQ 66
Qy 107 BREALSADPKLSLWPFCKTSGQBAVOQLQPPEDGLFLVRESARHPGDVILCVSFGRDV 166
Db 67 KREGVKAGTKLSLWPFCKITREQAERLLYPPEPGLFLVRESNYPGDYTLVCVSCDGKV 126
Qy 167 IHYRVLHEDGHLTIDEAVFFCNLMDMWEHYSKDKGAICTKLVPRKXKHGKTSAAEELARA 226
Db 127 EHYRIMYHASKLSIDSEVYFENLQVLEHYTSDADGLCTRLLKPKVMGTVAAQDEFYRS 186
Qy 227 GWLNLQHLTLGAQIGEGEFGAVLQGEVYLQGVAVVANKDVTAQAFLEDAVMTMQHE 286
Db 187 GWALNNKELKLTQTKGKEFGDWMGLGYRGNVAVKCIKNDATAQAQFLAEASVMTQLRHS 246
Qy 287 NLVRLGLVILHQ--GLYIVMHSVKNVNFRTGRALVNTAQLLQSLHVAEGMEYLE 344
Db 247 NLVQLGLVIVEKGGIYVTEYNAGSLVDYIRSRGRSVLGGDCLLKFSLDVCEAMEYLE 306
Qy 345 SKKLVHRDLAARNILVSEDLNAKVSDFGLAKAERKGLDSSRLPVKWTAPALREKKFSTK 404
Db 307 GNTFVHEDLAARNVLVSEDNNAKVSDFGLTKRASSTODTGKLPVKWTAPALREKKFSTK 366
Qy 405 SDVMSFGVLLWEVFSYGRAPYPRMSLKEVSEAVEKGYRMEPPBEGCPGPVHVLMSSCWEAE 464
Db 367 SDVMSFGVLLWEVFSYGRVDPYPRIPKDVVPRVEKGYKMDADPGCPPAVVEVMKNCWHL 426
Qy 465 PARPPFRKLAEKL 478
Db 427 AAMPSPFLQREQL 440

Search completed: May 19, 2004, 19:15:13

		; NUMBER OF SEQ ID NOS: 24			
		; SOFTWARE: PatentIn Ver. 2.1.1			
		; SEQ ID NO 1			
		; LENGTH: 2000			
		; TYPE: DNA			
		; ORGANISM: Unknown Organism			
		; FEATURE:			
		; NAME/KEY: CDS			
		; LOCATION: (258)..(1778)			
		; FEATURE:			
		; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte			
		; OTHER INFORMATION: kinase 1			
		; US-09-977-260-1			
		Query Match			
		100.0%; Score 2000; DB 9; Length 2000;			
		Best Local Similarity 100.0%; Pred. No. 0;			
		Matches 2000; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1	CTCGCTCCAAAGTTGTGAGCGCGGACCGCTTCGGGTGTGACGCGCGTGTGCGAGGCC	60	841	ATTACAGCAGGACAGGGCGCTATCTGCACCAAGCTGTGAGCAACCAAGCGGAACAG
DB	1	CTCGCTCCAAAGTTGTGAGCGCGGACCGCTTCGGGTGTGACGCGCGTGTGCGAGGCC	60	841	ATTACAGCAGGACAGGGCGCTATCTGCACCAAGCTGTGAGCAACCAAGCGGAACAG
QY	61	TCCTGGGGGCGGGCGCGGGCGGCTTCGGGGCGGCCCTCGACGAGAAACAGGAGAAC	120	901	GGACCAAGTCGGCCGAGGAGAGCTGGCCAGGGCGGGCTTGTACTGAACCTCAGCAT
DB	61	TCCTGGGGGCGGGCGCGGGCGGCTTCGGGGCGGCCCTCGACGAGAAACAGGAGAAC	120	901	GGACCAAGTCGGCCGAGGAGAGCTGGCCAGGGCGGGCTTGTACTGAACCTCAGCAT
QY	121	AGGTCGGTCCAGTGGGACCCAGCTCCCTACTCTGTGCCAGCGCGCTGCGCTGTGCA	180	961	TGACATTGGGAGCACAGATCGGAGAGGAGAGTTGGAGCTGTCCCTGCAGGGTGA
DB	121	AGGTCGGTCCAGTGGGACCCAGCTCCCTACTCTGTGCCAGCGCGCTGCGCTGTGCA	180	961	TGACATTGGGAGCACAGATCGGAGAGGAGAGTTGGAGCTGTCCCTGCAGGGTGA
QY	181	GGCCATTCCCAAGCTCCCGACTGTGACCACTTGTCTCACTGTGCTCTCACTGTGCT	240	1021	TGCGGCAAAAGTTCGGCTGAGAAATATCAAGTGTGATGTGACAGCCAGGCTTC
DB	181	GGCCATTCCCAAGCTCCCGACTGTGACCACTTGTCTCACTGTGCTCTCACTGTGCT	240	1021	TGCGGCAAAAGTTCGGCTGAGAAATATCAAGTGTGATGTGACAGCCAGGCTTC
QY	241	TTTCCCTCTGGGGGCGGATGCGGGGCGAGGCTCTCTGGTTTCTTGGCGGCAATTTCAG	300	1081	TCGGGCAAAAGTTCGGCTGAGAAATATCAAGTGTGATGTGACAGCCAGGCTTC
DB	241	TTTCCCTCTGGGGGCGGATGCGGGGCGAGGCTCTCTGGTTTCTTGGCGGCAATTTCAG	300	1081	TCGGGCAAAAGTTCGGCTGAGAAATATCAAGTGTGATGTGACAGCCAGGCTTC
QY	301	GCTGTGATCTCTCAGAGAACTTCCCGGGTGTAGCCCGCGCTTCTCCGAGCCTGGCAC	360	1141	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	301	GCTGTGATCTCTCAGAGAACTTCCCGGGTGTAGCCCGCGCTTCTCCGAGCCTGGCAC	360	1141	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
QY	361	CCCTTCCCGTCTCAGCCAGGATGCCAAGAGCGCTGGGCGCCCGGCGACCCAGTATCA	420	1201	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	361	CCCTTCCCGTCTCAGCCAGGATGCCAAGAGCGCTGGGCGCCCGGCGACCCAGTATCA	420	1201	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
QY	421	CCAAATGGGAGCACCCCGCCCAAGCGAGGAGTGTGCGCGCCCGGCGACCCAGTATCA	480	1261	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	421	CCAAATGGGAGCACCCCGCCCAAGCGAGGAGTGTGCGCGCCCGGCGACCCAGTATCA	480	1261	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
QY	481	TCACCAATCTCGAGGCTCGGAGAACAGAGCTGTGTACCGGCTCAAGCACACCAAGTG	540	1321	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	481	TCACCAATCTCGAGGCTCGGAGAACAGAGCTGTGTACCGGCTCAAGCACACCAAGTG	540	1321	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
QY	541	GACAGAGGGGCTGTGCGAGCTGGGCGCTGCGGAGCGGAGGCGCTCTCGGAGACC	600	1381	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	541	GACAGAGGGGCTGTGCGAGCTGGGCGCTGCGGAGCGGAGGCGCTCTCGGAGACC	600	1381	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
QY	601	CCAAATCTCGAGGCTCGGAGAACAGAGCTGTGTACCGGCTCAAGCACACCAAGTG	660	1441	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	601	CCAAATCTCGAGGCTCGGAGAACAGAGCTGTGTACCGGCTCAAGCACACCAAGTG	660	1441	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
QY	661	AGCTGAGCTCCCGAGGATGGGCTGTCTGTGTGGGAGTCCGGCGCGCACCCCGGG	720	1501	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	661	AGCTGAGCTCCCGAGGATGGGCTGTCTGTGTGGGAGTCCGGCGCGCACCCCGGG	720	1501	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
QY	721	ACTACGTCCTGTGGTGTGCTTTGGCGCGACCTTCATCCACTACCGGCTCTGCA	780	1561	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	721	ACTACGTCCTGTGGTGTGCTTTGGCGCGACCTTCATCCACTACCGGCTCTGCA	780	1561	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
QY	781	ACGGCCACCTTCACAAATCGATGAGGCGGCTTCTTCTGCAACCTTCATGACATGGT	840	1621	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC
DB	781	ACGGCCACCTTCACAAATCGATGAGGCGGCTTCTTCTGCAACCTTCATGACATGGT	840	1621	TCCTGCAACAGGGGCTGTATTTGTGTCTATGAGACACCGCTCAGCTCCTGCTGC

QY 1921 GGCTCTGGCGGCGCGCTGACACCCAGACCTGCGAAGATGATCCCGCCGATAAAGACGG 1980
Db 1921 GGCTCTGGCGGCGCGCTGACACCCAGACCTGCGAAGATGATCCCGCCGATAAAGACGG 1980
QY 1981 ATTCTAAGGACTCTAAAAA 2000
Db 1981 ATTCTAAGGACTCTAAAAA 2000

RESULT 3

US-09-977-261-1
; Sequence 1, Application US/09977261
; Publication No. US2003005452/A1
; GENERAL INFORMATION:
; APPLICANT: ULLRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1259
; CURRENT APPLICATION NUMBER: US/09/977,261
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; PRIOR FILING DATE: 1994-04-22
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2000
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (258)..(1778)
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
; OTHER INFORMATION: kinase 1
; US-09-977-261-1

Query Match 100.0%; Score 2000; DB 10; Length 2000;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2000; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTCGAAGTTGTGACCGGACCGCTCGGGGTGTGACCGCGCTCGCGAGGCC 60
Db 1 CTCCTCGAAGTTGTGACCGGACCGCTCGGGGTGTGACCGCGCTCGCGAGGCC 60
QY 61 TCCGTGG 120
Db 61 TCCGTGG 120
QY 121 AGGCTCGGTCCAGTGGCACCCAGTCCCTACTCTGTGCGAGCGCGCTGCGCTGTGGCA 180
Db 121 AGGCTCGGTCCAGTGGCACCCAGTCCCTACTCTGTGCGAGCGCGCTGCGCTGTGGCA 180
QY 181 GGCCATTCCAGCGTCCCGGACTGACCACTTGTCTAGTGTGCTCTCACTCGCTCAG 240
Db 181 GGCCATTCCAGCGTCCCGGACTGACCACTTGTCTAGTGTGCTCTCACTCGCTCAG 240
QY 241 TTTCCTCTGG 300
Db 241 TTTCCTCTGG 300
QY 301 GCTGTGATTCTCTGAGGAACCTCCCGGGTGTAGCCCGCGGTTCCTCCAGCGCTGGCAC 360
Db 301 GCTGTGATTCTCTGAGGAACCTCCCGGGTGTAGCCCGCGGTTCCTCCAGCGCTGGCAC 360
QY 361 CCCCTCCCGTCTCAGCGAGGATGCCAACGAGCGGTGGCGCCCGGACCCAGTGTATCA 420
Db 361 CCCCTCCCGTCTCAGCGAGGATGCCAACGAGCGGTGGCGCCCGGACCCAGTGTATCA 420
QY 421 CCAATATGGAGACACCCCGCCCAAGCCAGGGAGCTGGCCCTCCCGCAAGGCGACGTGG 480
Db 421 CCAATATGGAGACACCCCGCCCAAGCCAGGGAGCTGGCCCTCCCGCAAGGCGACGTGG 480

QY 481 TCACCATCCTTGAGCGCTCGGAGAACAGAGCTGTATCCGCTCAAGCACCAACACAGTC 540
Db 481 TCACCATCCTTGAGCGCTCGGAGAACAGAGCTGTATCCGCTCAAGCACCAACACAGTC 540
QY 541 GACAGAGGGGGTGTCTGGCAGCTGGGGCGCTCGGAGCGGAGGCGCTCTCCGAGACC 600
Db 541 GACAGAGGGGGTGTCTGGCAGCTGGGGCGCTCGGAGCGGAGGCGCTCTCCGAGACC 600
QY 601 CCAAGCTCAGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAG 660
Db 601 CCAAGCTCAGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAG 660
QY 661 AGTTCAGCCTCCGAGGATGGCTGTCTCGTGGGAGTCCGCGCCGACCCCGGG 720
Db 661 AGTTCAGCCTCCGAGGATGGCTGTCTCGTGGGAGTCCGCGCCGACCCCGGG 720
QY 721 ACTACCTCCTGTGCGTGAAGTCTGGCGGAGCGTCTCACTACCGCGTGTCTGACGG 780
Db 721 ACTACCTCCTGTGCGTGAAGTCTGGCGGAGCGTCTCACTACCGCGTGTCTGACGG 780
QY 781 AGGCCACCTCACAATCGATGAGCGCGTGTCTCTGCAACCTCATGGACATGTGGAGC 840
Db 781 AGGCCACCTCACAATCGATGAGCGCGTGTCTCTGCAACCTCATGGACATGTGGAGC 840
QY 841 ATTACAGCAAGGACAAAGGCGCTATCTGCAACCAAGCTGTGTGACCAAAACCGAAAC 900
Db 841 ATTACAGCAAGGACAAAGGCGCTATCTGCAACCAAGCTGTGTGACCAAAACCGAAAC 900
QY 901 GGACCAAGTCCGCGGAGGAGGAGCTGGCCAGGCGGGCTGGTTACTGAACCTGACGATT 960
Db 901 GGACCAAGTCCGCGGAGGAGGAGCTGGCCAGGCGGGCTGGTTACTGAACCTGACGATT 960
QY 961 TGCATTTGGAGSACAGATCGGAGGAGGAGTTCGAGCTGTCTGACGGGTGAGTACC 1020
Db 961 TGCATTTGGAGSACAGATCGGAGGAGGAGTTCGAGCTGTCTGACGGGTGAGTACC 1020
QY 1021 TGGGGCAAAAGGTGGCGGTGAAGATATCAAGTGTGTATGTGACAGCCAGCGCTTCTCG 1080
Db 1021 TGGGGCAAAAGGTGGCGGTGAAGATATCAAGTGTGTATGTGACAGCCAGCGCTTCTCG 1080
QY 1081 ACAGACGGCGCTCATGACGAAGATGCAACAGAGAACCTGGTGTCTCTGGCGCTGA 1140
Db 1081 ACAGACGGCGCTCATGACGAAGATGCAACAGAGAACCTGGTGTCTCTGGCGCTGA 1140
QY 1141 TCTGTGACACAGGGGCTGTACATTTGTATGAGCAGCAGTGAGCAAGGGCAACCTGGTGA 1200
Db 1141 TCTGTGACACAGGGGCTGTACATTTGTATGAGCAGCAGTGAGCAAGGGCAACCTGGTGA 1200
QY 1201 TTCTGCGGACCCGGGGTCTGAGCCCTCTGTGAACACCGCTCAGCTTCTGAGTTTCTCTGC 1260
Db 1201 TTCTGCGGACCCGGGGTCTGAGCCCTCTGTGAACACCGCTCAGCTTCTGAGTTTCTCTGC 1260
QY 1261 AGTTCGCGGAGGATGAGTACCTGAGAGCAAGAGCTTGTGACCGGACCTGGCGG 1320
Db 1261 AGTTCGCGGAGGATGAGTACCTGAGAGCAAGAGCTTGTGACCGGACCTGGCGG 1320
QY 1321 CCGGCACATCTCTGCTCAGAGGACCTGTGGCAAGGCTCAGGCACTTTGGGCTGGCCA 1380
Db 1321 CCGGCACATCTCTGCTCAGAGGACCTGTGGCAAGGCTCAGGCACTTTGGGCTGGCCA 1380
QY 1381 AAGCCGAGCGGAAGGGGCTAGACTTCAAGCCGGGTCCCGTCAAGTGAAGCGCGCGAGG 1440
Db 1381 AAGCCGAGCGGAAGGGGCTAGACTTCAAGCCGGGTCCCGTCAAGTGAAGCGCGCGAGG 1440
QY 1441 CTCTCAAAACACGGGAAGTTTCAAGAGTGTGATGTCTGGAGTTTGGGGTGTCTGTCT 1500
Db 1441 CTCTCAAAACACGGGAAGTTTCAAGAGTGTGATGTCTGGAGTTTGGGGTGTCTGTCT 1500
QY 1501 GGGAGGTCTTCTCATATGAGCGGCTCCGTACCCCTAAAACTGCTCAAGAGAGGTGTGG 1560
Db 1501 GGGAGGTCTTCTCATATGAGCGGCTCCGTACCCCTAAAACTGCTCAAGAGAGGTGTGG 1560
QY 1561 AGGCCGTGGAAGAGGGGTACCGCATGGAAACCCCGGAGGGGCTGTCCAGGCCCGGTGACG 1620

```
Db 1561 AGCCGCTGGAGAGGGTACCGCATGAGACCCCGGAGGCTGTCCAGGCCCGCTGCACG 1620
Qy 1621 TCCTCATGAGCAGTGTGGAGGACAGAGCCCGCCCGCCGACCCCTTCGGCAAACTGG 1680
Db 1621 TCCTCATGAGCAGTGTGGAGGACAGAGCCCGCCCGCCGACCCCTTCGGCAAACTGG 1680
Qy 1681 CCGAGAAAGCTGGCCCGGAGTACGCGAGTGAGGTGCCCGCCGCTCAGTGTCCAGGGCAGG 1740
Db 1681 CCGAGAAAGCTGGCCCGGAGTACGCGAGTGAGGTGCCCGCCGCTCAGTGTCCAGGGCAGG 1740
Qy 1741 ACGCCGAGCGCTCCACCTCGCCCGAGCCAGGAGCCCTGACCCACCCGCTGGGGCCCT 1800
Db 1741 ACGCCGAGCGCTCCACCTCGCCCGAGCCAGGAGCCCTGACCCACCCGCTGGGGCCCT 1800
Qy 1801 TGGCCCCAGAGGACCGAGAGAGTGAGAGTGGCGGTGGGGGCGACTGACACAGGCCCAAGG 1860
Db 1801 TGGCCCCAGAGGACCGAGAGAGTGAGAGTGGCGGTGGGGGCGACTGACACAGGCCCAAGG 1860
Qy 1861 AGGTTCCAGCGGGCAAGTATCTCTCTGTGGTGGCCACAGAGGGGCTGGGCCACGTAGGG 1920
Db 1861 AGGTTCCAGCGGGCAAGTATCTCTCTGTGGTGGCCACAGAGGGGCTGGGCCACGTAGGG 1920
Qy 1921 GGCTCTGGCGCGCCCTGGACACCCAGACCTGCGAGGAGTATCGCCCGATAAAGACGG 1980
Db 1921 GGCTCTGGCGCGCCCTGGACACCCAGACCTGCGAGGAGTATCGCCCGATAAAGACGG 1980
Qy 1981 ATTCTAAGGACTCTAAAAA 2000
Db 1981 ATTCTAAGGACTCTAAAAA 2000

RESULT 4
US-10-084-817-341
; Sequence 341, Application US/10084817
; Publication No. US20030119009A1
; GENERAL INFORMATION:
; APPLICANT: Susan Stuart
; APPLICANT: Jed G. Nuchtern
; APPLICANT: Sharon E. Plon
; APPLICANT: Jason M. Shohet
; TITLE OF INVENTION: GENES REGULATED BY MYCN ACTIVATION
; FILE REFERENCE: PA-0046 US
; CURRENT APPLICATION NUMBER: US/10/084,817
; CURRENT FILING DATE: 2002-02-25
; PRIOR APPLICATION NUMBER: 60/270,784
; PRIOR FILING DATE: 2001-02-23
; NUMBER OF SEQ ID NOS: 365
; SOFTWARE: PERL Program
; SEQ ID NO 341
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Indyte ID No. US20030119009A1 1794861CB1
US-10-084-817-341

Query Match 96.5%; Score 1930; DB 15; Length 1989;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1986; Conservative 0; Mismatches 0; Indels 6; Gaps 5;

Qy 1 CTGCTCCCAAGTTGTGACGCGGACCGCTCGGGGTGTGACGCGGCTCGCGAGGCC 60
Db 1 CTGCTCCCAAGTTGTGACGCGGACCGCTCGGGGTGTGACGCGGCTCGCGAGGCC 60
Qy 61 TCTTGGGGCGGGCGGG--GCGGCTCGGGGGGCGCCCTTGACGAGAAACAGGAGAA 118
Db 61 TCTTGGGGCGGGCGGG--GCGGCTCGGGGGGCGCCCTTGACGAGAAACAGGAGAA 120
Qy 119 CAGGCTCGTTCAGTGGACCCAGCTCCCTACTCTGTGCGAGCGCGCTGGCTGTGG 178
Db 121 CCAGGCTCGTTCAGTGGACCCAGCTCCCTACTCTGTGCGAGCGCGCTGGCTGTGG 190
```

```
Qy 179 CAGSCATTCCACAGCGTCCCGACTGTGACACTTGTCTCAGTGTGCTCTCACCTGCCTC 238
Db 181 CAGGCCAATCCAGCGTCCCGACTGTGACCACTTGTCTCAGTGTGCTCTCACCTGCCTC 240
Qy 229 AGTTTCCCTCTGGGGGGCGATGGGGGGCGAGGCTCTCTGTCTTCTTCTGGGGGATTTCA 298
Db 241 AGTTTCCCTCT--GGGGCGGATGGGGGGCGAGGCTCTCTGTCTTCTTCTGGGGGATTTCA 299
Qy 299 CGCTGTGATCTGTCTGAGGAACTTCCCGGGTGTGAGCCCGCTTCTTCCGAGCCTGGCA 358
Db 300 CGCTGTGATCTGTCTGAGGAACTTCCCGGGTGTGAGCCCGCTTCTTCCGAGCCTGGCA 359
Qy 359 CCCCCCTCCGCTCTACACGAGATGCCAAAGAGCGGTGGGCCCGCCGCGCAACCCAGTGTAT 418
Db 360 CCCCCCTCCGCTCTACACGAGATGCCAAAGAGCGGTGGGCCCGCCGCGCAACCCAGTGTAT 419
Qy 419 CACCAATGGAGCACACCCGCCCAAGCCAGGGAGCTGGCCCTTCCGCAAGGGGAGCT 478
Db 420 CACCAATGGAGCAACACCCGCCCAAGCCAGGGAGCTGGCCCTTCCGCAAGGGGAGCT 479
Qy 479 GGTCACTCTGTGAGGCTGTGAGAAACAGAGCTGGTACCGGTGTGAGCAACACACAG 538
Db 430 GGTCACTCTGTGAGGCTGTGAGAAACAGAGCTGGTACCGGTGTGAGCAACACACAG 539
Qy 539 TGGACGAGGGGCTGTGAGCTGGGGCGCTGGGAGCGGAGGCGCTCTCCGCGAGA 598
Db 540 TGGACGAGGGGCTGTGAGCTGGGGCGCTGGGAGCGGAGGCGCTCTCCGCGAGA 599
Qy 599 CCCCAGCTCAGCCCTCATGCCGTGTTCCAGGGAAGATCTCGGSCCAGGAGGCTGTCA 658
Db 600 CCCCAGCTCAGCCCTCATGCCGTGTTCCAGGGAAGATCTCGGSCCAGGAGGCTGTCA 659
Qy 659 GCAGTGTGAGCTTCCGAGGTGGCTGTCTGTGTGGGGAGTCCGCGCCACCCCGG 718
Db 650 GCAGTGTGAGCTTCCGAGGTGGCTGTCTGTGTGGGGAGTCCGCGCCACCCCGG 719
Qy 719 CGACTAGCTGTGCTGAGCTTGGCGCGAGCTCATCACTACCGGTGTCTCAACCG 778
Db 720 CGACTAGCTGTGCTGAGCTTGGCGCGAGCTTGGCGCGAGCTCATCACTACCGGTGTCTCAACCG 779
Qy 779 CGACGGCCACCTCACAATCGATGAGGCCGTGTCTTCTGCAACCTCATGGACATGGTGA 838
Db 780 CGACGGCCACCTCACAATCGATGAGGCCGTGTCTTCTGCAACCTCATGGACATGGTGA 839
Qy 839 GCATTACAGCAAGGCAAGGGGCTATCTGTGACCAAGCTGTGTGAGCAACAGGGAACA 898
Db 840 GCATTACAGCAAGGCAAGGGGCTATCTGTGACCAAGCTGTGTGAGCAACAGGGAACA 899
Qy 899 CGGGACCAAGTCCGCCGAGGAGAGCTGGCCAGGGGCGGCTGTACTGAACTGCAGCA 958
Db 900 CGGGACCAAGTCCGCCGAGGAGAGCTGGCCAGGGGCGGCTGTACTGAACTGCAGCA 959
Qy 959 TTTGACATTGGGAGCACAGATCGGAGAGGAGTTTGGAGCTGTCTCAGGGTCACTA 1018
Db 960 TTTGACATTGGGAGCACAGATCGGAGAGGAGTTTGGAGCTGTCTCAGGGTCACTA 1019
Qy 1019 CTTGGGGCAAAAGTGGCGCTGAAGATATCAAGTGTGATGTGACAGCCAGCCCTTCT 1078
Db 1020 CTTGGGGCAAAAGTGGCGCTGAAGATATCAAGTGTGATGTGACAGCCAGCCCTTCT 1079
Qy 1079 GGACGAGAGCGCGCTCATGACAAAGATGCAACAGAGAACCTTGGTGTCTCTCTGGGCGT 1138
Db 1080 GGACGAGAGCGCGCTCATGACAAAGATGCAACAGAGAACCTTGGTGTCTCTCTGGGCGT 1139
Qy 1139 GATCTGTGACCAAGGGGCTGTATATTGTATGAGACGCTGTGAGCAAGGGCAACCTGTGAA 1198
Db 1140 GATCTGTGACCAAGGGGCTGTATATTGTATGAGACGCTGTGAGCAAGGGCAACCTGTGAA 1199
Qy 1199 CTTTCTGGGAGACCGGGGCTGAGCCCTGTGTGACACCGCTCAGCTCTGAGTTTCTCT 1258
Db 1200 CTTTCTGGGAGACCGGGGCTGAGCCCTGTGTGAAACACCGCTCAGCTCTGAGTTTCTCT 1259
```


901 GGACCAAGTCGGCGAGGAGGAGCTGGCCAGGGCGGCTGTTACTGAACTGTCAGCAT 960
Db |||||
906 GGACCAAGTCGGCGAGGAGAGCTGGCCAGGGCGGCTGTTACTGAACTGTCAGCAT 965
Qy
961 TGACATTTGGGAGCACAGATCGAGAGGAGAGTTTGGAGCTGTCTCTGAGGGTGAATAC 1020
Db |||||
966 TGACATTTGGGAGCACAGATCGAGAGGAGAGTTTGGAGCTGTCTCTGAGGGTGAATAC 1025
Qy |||||
1021 TGGGCAAAAGTGGCGTGAAGATATCAAGTGTGATGTGACAGCCAGCCCTTCTGG 1080
Db |||||
1026 TGGGCAAAAGTGGCGTGAAGATATCAAGTGTGATGTGACAGCCAGCCCTTCTGG 1085
Qy |||||
1081 ACGAGAGCGCGTCATGACGAGAGATGCAACACGAGAACCTGTGGTCTCTCTGGCGTGA 1140
Db |||||
1086 ACGAGAGCGCGTCATGACGAGAGATGCAACACGAGAACCTGTGGTCTCTCTGGCGTGA 1145
Qy |||||
1141 TCCTTGCAACAGGGGCTGTACATTTGTCATGAGCAGCTGAGCAAGGCAACCTGTGAACT 1200
Db |||||
1146 TCCTTGCAACAGGGGCTGTACATTTGTCATGAGCAGCTGAGCAAGGCAACCTGTGAACT 1205
Qy |||||
1201 TTCTGGGAGCCCGGGGTGAGCCCTGCTGTGAACACCGCTCAGTCTGACATTTCTCTGC 1260
Db |||||
1206 TTCTGGGAGCCCGGGGTGAGCCCTGCTGTGAACACCGCTCAGTCTGACATTTCTCTGC 1265
Qy |||||
1261 ACGTGGCGAGGGATGAGTACCTGGAGAGCAAGAACCTTGTCAACCGGACCTGGCG 1320
Db |||||
1266 ACGTGGCGAGGGATGAGTACCTGGAGAGCAAGAACCTTGTCAACCGGACCTGGCG 1325
Qy |||||
1321 CCGCAACATCTCTCTCAGAGGACCTGGTGCCCAAGGTGAGCACTTTGGCTTGGCA 1380
Db |||||
1326 CCGCAACATCTCTCTCAGAGGACCTGGTGCCCAAGGTGAGCACTTTGGCTTGGCA 1385
Qy |||||
1381 AAGCGGACGGAGGGGTAGACTCAAGCGGCTGCCGTCAAGTGGAGCGGCCCGAGG 1440
Db |||||
1386 AAGCGGACGGAGGGGTAGACTCAAGCGGCTGCCGTCAAGTGGAGCGGCCCGAGG 1445
Qy |||||
1441 CTCTCAACACGGGAAGTTCACACAGAGTCGGATGTCTGGAGTTTGGGGTGTCTCT 1500
Db |||||
1446 CTCTCAACACGGG--GTTCCACCAAGATCGGATGTCTGGAGTTTGGGGTGTCTCT 1502
Qy |||||
1501 GGGAGCTTCTCATATGAGCGGGTCCGTACCTCAAAATGTCATGAAAGAGTGTGG 1560
Db |||||
1503 GGGAGCTTCTCATATGAGCGGGTCCGTACCTCAAAATGTCATGAAAGAGTGTGG 1562
Qy |||||
1561 AGCGGTGGAGAGGGATACCGATGGAACCCCGAGGGTGTCCAGSCCCCTGTGACG 1620
Db |||||
1563 AGCGGTGGAGAGGGATACCGATGGAACCCCGAGGGTGTCCAGSCCCCTGTGACG 1622
Qy |||||
1621 TCCTCATGAGCAGCTCTGGGAGGAGAGCCCGCGCGCCACCTTCCGCAACTGG 1680
Db |||||
1623 TCCTCATGAGCAGCTCTGGGAGGAGAG--CGCGCGCGCGCGACCTTCCGCAACTGG 1681
Qy |||||
1681 CCGAGAGCTGCGCGGGAGTACCGAGTGCAGGTGCCCGCAGCTCCGTTCTCAGGCGAG 1740
Db |||||
1682 CCGAGAGTGCCTCGGAGTACCGAGTGCAGGTGCCCGCAGCTCCGTTCTCAGGCGAG 1741
Qy |||||
1741 ACGCGACCGGTTCACCTCGCCCGAAGCCAGAGCCCTTGACCCCAACCGGTGGGCCCT 1800
Db |||||
1742 ACGCGACCG--TCCACCTCGCCCGAAGCCAGAGCCCTTGACCCCAACCGGT--GGCCCT 1798
Qy |||||
1801 TGGCCCCAGAGACCGAGAGTGGAGTGGGTGGGGGCACTGACCCGCGCCCAAGG 1860
Db |||||
1799 TGGCCCCAGAGACCGAGAGTGGAGTGGGTGGGGGCACTGACCCGCGCCCAAGG 1858
Qy |||||
1861 AGGGTCCAGGCGGCAAGTCACTCTCTGTGTCACAGCAGGGGTGGCCCACTAGG 1920
Db |||||
1859 AGGGTCCAGGCGGCAAGTCACTCTCTGTGTCACAGCAGGGGTGGCCCACTAGG 1918
Qy |||||
1921 GGCCTCTGGGCGGCGCTGACACCCAGACCTTCGGAAGGATGATCGCCCGATAAAGACG 1980
Db |||||
1919 GGCCTCTGGGCGGCGCTGACACCCAGACCTTCGGAAGGATGATCGCCCGATAAAGACG 1978
Qy |||||
1981 ATTCTAAG 1989

Db 1979 ATTCTAAG 1987

RESULT 6

US-10-641-643-1409
; Sequence :409, Application US/10641643
; Publication No. US20040077003A1
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; Susan G. Stuart
; Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL
; GENE EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/641,643
; FILING DATE: 14-Aug-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1409:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1987 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9455449
; SEQUENCE DESCRIPTION: SEQ ID NO: 1409 :
US-10-641-643-1409

Query Match 95.5%; Score 1509.8; DB 17; Length 1987;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1973; Conservative 0; Mismatches 7; Indels 9; Gaps 5;
Qy 1 CTCGCTCCAAAGTGTGACCGCGGACCGCTCGGGGTGTGACCGGCTCGCGAGGCC 60
Db 8 CTCGCTCCAAAGTGTGACCGCGGACCGCTCGGGGTGTGACCGGCTCGCGAGGCC 67
Qy 61 TCCTGGGCGCGCGCGCGCGCGCTCGGGGGCGCCCTGACAGCAAAACAGAGAAACC 120
Db 68 TCCTGGGCGCGCGCGCGCGCGCTCGGGGGCGCCCTGACAGCAAAACAGAGAAACC 127
Qy 121 AGGCTCGGTCAGTGGCAACCCAGCTCCCTTACCTCTGTGCGCAGCCGCTGTGGCA 180
Db 128 AGGCTCGGTCAGTGGCAACCCAGCTCCCTTACCTCTGTGCGCAGCCGCTGTGGCA 187
Qy 181 GGCCTATCCAGCGTCCCGACTGTGACCACTGTGACCTGTGCTCTCCTGCTCAG 240
Db 188 GGCCTATCCAGCGTCCCGACTGTGACCACTGTGACCTGTGCTCTCCTGCTCAG 247

		Matches 1973; Conservative 0; Mismatches 7; Indels 87; Gaps 6;			
QY	1	CTCCCTCAAAGTGTGACGCGGGAACCCCTCGGGGTGTGACGCGGTCTCGAGGCCC	60		
DB	8	CTCGCTCAAAGTGTGACGCGGGAACCCCTCGGGGTGTGACGCGGTCTCGAGGCCC	67		
QY	51	TCTTGGGGGGGGCGCGGGGGGTCTCGGGGGCGCCCTGAGCAGAAACAGGAACCC	120		
DB	68	TCTTGGGGGGGGCGCGGGGGGTCTCGGGGGCGCCCTGAGCAGAAACAGGAACCC	127		
QY	121	AGGCTCGGTCCAGTGGCAACCCAGCTCCCTACCTCTCTGTGCAAGCGCTGTGGCA	180		
DB	128	AGGCTCGGTCCAGTGGCAACCCAGCTCCCTACCTCTCTGTGCAAGCGCTGTGGCA	187		
QY	181	GGCAATCCAGCGTCCCGCATGTGACACATGTCTAGTGTGCTTCACTGCTCAG	240		
DB	188	GGCAATCCAGCGTCCCGCATGTGACACATGTCTAGTGTGCTTCACTGCTCAG	247		
QY	241	TTTCCCTCTGGGGGGGATGGGGGGGAGCTCTCTGTTTCTGGGGGCAATTTACG	300		
DB	248	TTTCC- -CTGGGGGGGATGGGGGGGAGGCTCTCTGTTTCTGGGGGCAATTTACG	305		
QY	301	GCTGTGATTTCTGTGAGGAATTTCCCGGGGTGAGCCCGCGTTCTCCGAGCTGGCACC	360		
DB	306	GCTGTGATTTCTGTGAGGAATTTCCCGGGGTGAGCCCGCGTTCTCCGAGCTGGCACC	365		
QY	361	CCCCCTCCGTCTACGCCAGATGCCAAGAGCGCTGGGGCCCGGGCACCCAGTGTATCA	420		
DB	366	CCCCCTCCGTCTACGCCAGATGCCAAGAGCGCTGGGGCCCGGGCACCCAGTGTATCA	425		
QY	421	CCAAATGGAGACACACCGCCCAAGCCAGGGGAGCTGGCTTCGCAAGGGCGACGTGG	480		
DB	426	CCAAATGGAGACACACCGCCCAAGCCAGGGGAGCTGGCTTCGCAAGGGCGACGTGG	485		
QY	481	TCACCATCTTGAGGCTTCGAGAAACAAAGAGCTGTGTACCGGTCAAGACACACACAGTG	540		
DB	486	TCACCATCTTGAGGCTTCGAGAAACAAAGAGCTGTGTACCGGTCAAGACACACACAGTG	545		
QY	541	GACAGGAGGGGTGTGTGACGTGGGGGCTCGGGAGCGGAGGCCCTCTCCGACAGCC	600		
DB	546	GACAGGAGGGGTGTGTGACGTGGGGGCTCGGGAGCGGAGGCCCTCTCCGACAGCC	605		
QY	601	CCAGCTCAGCTCATGCGGTGTTGACAGGGAAGATCTCGGGCCAGAGGCTGTCCAGC	660		
DB	606	CCAGCTCAGCTCATGCGGTGTTGACAGGGAAGATCTCGGGCCAGAGGCTGTCCAGC	665		
QY	661	AGCTCAGCTCCCGAGGATGGGCTGTTCTGTGTGGGGAGTCCCGCGCCACCCCGCG	720		
DB	666	AGCTCAGCTCCCGAGGATGGGCTGTTCTGTGTGGGGAGTCCCGCGCCACCCCGCG	725		
QY	721	ACTAGCTCTGTGCTGAGCTTTGGCCCGAGCTCATCCATCTACCGGTGTGACACCGCG	780		
DB	726	ACTAGCTCTGTGCTGAGCTTTGGCCCGAGCTCATCCATCTACCGGTGTGACACCGCG	785		
QY	781	ACGGCACTCACAATCGATGAGGCGGTGTTCTGTGAACTCTCATGACATGGTGG- -	837		
DB	786	ACGGCACTCACAATCGATGAGGCGGTGTTCTGTGAACTCTCATGACATGGTGGGA	845		
QY	838	-----	837		
DB	846	GGCCACCGGGNACGAAACAGATGCTGGGTTCCCTCCCTGGGGCTGGGCTCATGGCT	905		
QY	838	-----AGCAATTACAGGAACAGGGCGCTATCTGCACCAAGCTGGTGA	882		
DB	906	GTCCCAACCATCTGACAGATTTACAGAGGAACAGGGCGCTATCTGCACCAAGCTGGTGA	965		
QY	883	GACCAAGGGGAAACAGCGGACCAAGTGGCCGAGAGAGCTGCCAGGGCGGCTGGT	942		
DB	966	GACCAAGGGGAAACAGCGGACCAAGTGGCCGAGAGAGCTGCCAGGGCGGCTGGT	1025		
QY	943	TACTCAACTGACGATTTGACATTTGGGAGCACAGATCGGAGGGAGAGTTTGGAGCTG	1002		
DB	1026	TACTCAACTGACGATTTGACATTTGGGAGCACAGATCGGAGGGAGAGTTTGGAGCTG	1085		

RESULT 8

US-10-280-576-6

; Sequence 5, Application US/10280576

Publication No. US20040044405A1
GENERAL INFORMATION:
APPLICANT: Wolff, Matthew R.
TITLE OF INVENTION: VASCULAR STENT OR GRAFT COATED OR IMPREGNATED WITH PROTEIN
FILE REFERENCE: 09820.189
CURRENT APPLICATION NUMBER: US/10/280,576
CURRENT FILING DATE: 2002-10-22
PRIOR APPLICATION NUMBER: 60/343,732
PRIOR FILING DATE: 2001-10-25
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 1594
TYPE: DNA
ORGANISM: Homo sapiens
US-10-280-576-6

Query Match 76.7%; Score 1533.8; DB 13; Length 1584;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1582; Conservative 0; Mismatches 2; Indels 7; Gaps 4;

QY 258 ATGCGGGGCGAGGCTCTCTGGTTCTTCTGGCGGCATTTCACGGCTGTGATTCGCTGAG 317
DB 1 ATGCGGGGCGAGGCTCTCTGGTTCTTCTGGCGGCATTTCACGGCTGTGATTCGCTGAG 60
QY 318 GAATCTTCCCGGGTGAGCCCGCGCTTCTCCGAGCCTGGCACCCCGCTCCCGTCTCAGCC 377
DB 61 GAATCTTCCCGGGTGAGCCCGCGCTTCTCCGAGCCTGGCACCCCGCTCCCGTCTCAGCC 120
QY 378 AGATATCAACAGAGCGGTGGCGCGCGCGGCGACCCAGTGATATCAACAATGGACACACC 437
DB 121 AGATATCAACAGAGCGGTGGCGCGCGCGGCGACCCAGTGATATCAACAATGGACACACC 180
QY 438 CGCCCAAGCAGAGGAGCTGGCTTCCGCAAGGCGGACGAGTCAACCATCTCGAGAGGCC 497
DB 181 CGCCCAAGCAGAGGAGCTGGCTTCCGCAAGGCGGACGAGTCAACCATCTCGAGAGGCC 240
QY 498 TCGAGAACAAAGAGTGCTACCGGTCAAGCAAGCACCACCAAGTGAAGAGGAGGCTGCTG 557
DB 241 TCGAGAACAAAGAGTGCTACCGGTCAAGCAAGCACCACCAAGTGAAGAGGAGGCTGCTG 300
QY 558 GCAGTGGGGGCTGCGGAGAGGGAGGCGCTTCTCCGAGACCCCAAGCTCAGCTCATG 617
DB 301 GCAGTGGGGGCTGCGGAGAGGGAGGCGCTTCTCCGAGACCCCAAGCTCAGCTCATG 360
QY 618 CCGTGTTCACGGAAGATCTCGGCGCAGGAGGCTGTCAGCAGCTCAGCTCCCGAG 677
DB 361 CCGTGTTCACGGAAGATCTCGGCGCAGGAGGCTGTCAGCAGCTCAGCTCCCGAG 420
QY 678 GATGGGCTGTTCCTGGTGGGAGTCCGCGCGCCACCCCGCGACTAGCTCTGTGCGTG 737
DB 421 GATGGGCTGTTCCTGGTGGGAGTCCGCGCGCCACCCCGCGACTAGCTCTGTGCGTG 480
QY 738 AGCTTTGGCGCGAGCTATCCACTACCGGTGCTGACCGGAGCGGCGCACTCAACAATC 797
DB 481 AGCTTTGGCGCGAGCTATCCACTACCGGTGCTGACCGGAGCGGCGCACTCAACAATC 540
QY 798 GATGAGGCGGTGTTCTTCTGCACTCATGACATGTGTGGAGCATTAAGCAAGACAAAG 857
DB 541 GATGAGGCGGTGTTCTTCTGCACTCATGACATGTGTGGAGCATTAAGCAAGACAAAG 600
QY 858 GCGGTATCTGCCAAGTGTGTGAGCAAAAGCGGAAACACGGGACCAAGTCGCGCGAG 917
DB 601 GCGGTATCTGCCAAGTGTGTGAGCAAAAGCGGAAACACGGGACCAAGTCGCGCGAG 660
QY 918 GAGGAGCTGGCAGGGCGGCTGCTTACTGACCTCGACATTTGACATTTGGGACACAG 977
DB 661 GAGGAGCTGGCAGGGCGGCTGCTTACTGAACTTCAGCAATTGACATTTGGGACACAG 720
QY 978 ATCGAGAGGGAGAGTTTCAGCTGCTGCAAGGTGAGTACCTGGGCAAAAGGTGGCC 1037
DB 721 ATCGAGAGGGAGAGTTTGGAGCTGTCTGCAAGGTGAGTACCTGGGCAAAAGGTGGCC 780

QY 1038 GTCAAGATATCAAGTGTGATGTGACAGCCAGGCGCTTCTGTGACGAGACGGCGGTCAATG 1097
DB 781 GTCAAGATATCAAGTGTGATGTGACAGCCAGGCGCTTCTGTGACGAGACGGCGGTCAATG 840
QY 1098 ACCAAGATGCAACACAGAACCTGTGCGTCTCTGGGCGGTGATCTGTGACACAGGGGCTG 1157
DB 341 ACCAAGATGCAACACAGAACCTGTGCGTCTCTGGGCGGTGATCTGTGACACAGGGGCTG 900
QY 1158 TACATTGTCAATGGAGCACCTGTGAGCAAGGGCAACTGTGTGAATTTCTGCGGAACCCGGGT 1217
DB 901 TACATTGTCAATGGAGCACCTGTGAGCAAGGGCAACTGTGTGAATTTCTGCGGAACCCGGGT 960
QY 1218 CGAGCCCTCGTGAACACCGCTCACTCTGAGTTTCTGTGACGCTGGCGAGGGCATG 1277
DB 961 CGAGCCCTCGTGAACACCGCTCACTCTGAGTTTCTGTGACGCTGGCGAGGGCATG 1020
QY 1278 GAGTACCTGGAGAGCAAGAGCTTGTGACCGCGACCTGGCGCGCCCAACATCTCTGCT 1337
DB 1021 GAGTACCTGGAGAGCAAGAGCTTGTGACCGCGACCTGGCGCGCCCAACATCTCTGCT 1080
QY 1338 TCAGAGGACCTGTGTGGCCAAAGGTACGCACTTTGGCTGTGCGCCAAAGCCGAGCGGAGGG 1397
DB 1081 TCAGAGGACCTGTGTGGCCAAAGGTACGCACTTTGGCTGTGCGCCAAAGCCGAGCGGAGGG 1140
QY 1398 CTAGACTCAAGCGGCTGCGCGTCAAGTGAAGCGCGCGGAGGCTCTCAACACAGGAG 1457
DB 1141 CTAGACTCAAGCGGCTGCGCGTCAAGTGAAGCGCGCGGAGGCTCTCAACACAGGAG 1197
QY 1458 TTCAACAGCAAGTCGAGTGTGAGTTTGGGCTGTGCTCTGGGAGGCTTCTCTCATAT 1517
DB 1198 TTCAACAGCAAGTCGAGTGTGAGTTTGGGCTGTGCTCTGGGAGGCTTCTCTCATAT 1257
QY 1518 GAGCGGCTCCGTACCTAAATGTCTGAAAGAGTGTGCGAGGCGCTGCGAGAGGGG 1577
DB 1258 GAGCGGCTCCGTACCTAAATGTCTGAAAGAGTGTGCGAGGCGCTGCGAGAGGGG 1317
QY 1578 TACCGATGAAACCCCGGAGGCTGTCAGGCGCGCTGACGCTCTCATGACAGCTGC 1637
DB 1318 TACCGATGAAACCCCGGAGGCTGTCAGGCGCGCTGACGCTCTCATGACAGCTGC 1377
QY 1638 TGGAGGACAGACCGCGCGCGCCACCTTCCGCAAACTGGCGGAGAACTGGCGCGG 1697
DB 1378 TGGAGGACAGACCGCGCGCGCGCCACCTTCCGCAAACTGGCGGAGAACTGGCGCGG 1436
QY 1698 GAGCTACGAGTGTGAGTGTGCGCGCGCGCTGCTGAGGAGGAGCGCGGCTGCGAG 1757
DB 1437 GAGCTACGAGTGTGAGTGTGCGCGCGCGCTGCTGAGGAGGAGCGCGGCTGCGAG 1495
QY 1758 TCGCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1817
DB 1496 TCGCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1553
QY 1818 GAGAGTGGAGAGTGGCGGTGGGGGCGACTGA 1848
DB 1554 GAGAGTGGAGAGTGGCGGTGGGGGCGACTGA 1584

RESULT 9
US-10-187-900-1
; Sequence 1, Application US/10187900
; Publication No. US20030166221A2
; GENERAL INFORMATION:
; APPLICANT: BEASLEY, Ellen M. et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: C1001061
; CURRENT APPLICATION NUMBER: US/10/187,900
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1713

```

; TYPE: DNA
; ORGANISM: Human
US-10-187-900-1

Query Match      68.8%; Score 1377; DB 15; Length 1713;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 1383; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 608 CAGCTCATGCGCGTGTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGCA 667
Db      |||
QY 297 CAGCAGCTTCTGTGTGTTCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGCA 356
Db      |||
QY 668 GCCTCCCGAGAGTGGCTGTCTCTGTCGGGGAGTCCGGGGCCACCCCGGGGAGTACGT 727
Db      |||
QY 357 GCCTCCCGAGAGTGGGCTGTCTCTGTCGGGGAGTCCGGGGCCACCCCGGGGAGTACGT 416
Db      |||
QY 728 CCTGTGCGTGTGAGCTTGGCCGCGAGCTCATCCACTACCGCGTGTCTGCAACCGGCA 787
Db      |||
QY 417 CCTGTGCGTGTGAGCTTGGCCGCGAGCTCATCCACTACCGCGTGTCTGCAACCGGCA 476
Db      |||
QY 788 CTTCAAAATCGATGAGGCGGTCTTCTCTGCAACCTCATGACATGCTGTGAGCATTACAG 847
Db      |||
QY 477 CTTCAAAATCGATGAGGCGGTCTTCTCTGCAACCTCATGACATGCTGTGAGCATTACAG 536
Db      |||
QY 848 CAAAGACAAAGGCGCTATCTGCAACAGCTGTGTGACCAAGCGGAACACCGGACCAA 907
Db      |||
QY 537 CAAAGACAAAGGCGCTATCTGCAACAGCTGTGTGACCAAGCGGAACACCGGACCAA 596
Db      |||
QY 908 GTCCGCCGAGGAGGAGCTGGCCGAGCGGCGTGTCTGTAACCTGCGAGCATTTGACATT 967
Db      |||
QY 597 GTCCGCCGAGGAGGAGCTGGCCGAGCGGCGTGTCTGTAACCTGCGAGCATTTGACATT 556
Db      |||
QY 968 GCGAGCACAGATCGGAGAGGAGAGTTGGAGCTGTCTCTCAGGGTGTAGTACTCTGGGCA 1027
Db      |||
QY 657 GCGAGCACAGATCGGAGAGGAGAGTTGGAGCTGTCTCTCAGGGTGTAGTACTCTGGGCA 716
Db      |||
QY 1028 AAAGTGGCGCTCAGAAATATCAAGTGTGTGTGACAGCCAGGCGTCTCTGACAGAC 1087
Db      |||
QY 717 AAAGTGGCGCTCAGAAATATCAAGTGTGTGTGACAGCCAGGCGTCTCTGACAGAC 776
Db      |||
QY 1088 GCGCTCATGACAGATGCAACACGAGACCTGTGTCTCTCTGGGCTGTATCTGCA 1147
Db      |||
QY 777 GCGCTCATGACAGATGCAACACGAGAACCTGTGTCTCTCTGGGCTGTATCTGCA 836
Db      |||
QY 1148 CCAGGCGCTCTCATTTCTCATGAGCACGTGAGCAAGGCAACCTGTGAACTTTCTGG 1207
Db      |||
QY 837 CCAGGCGCTCTCATTTCTCATGAGCACGTGAGCAAGGCAACCTGTGAACTTTCTGG 896
Db      |||
QY 1208 GACCCGGGTCGAGCCCTCTGTGACACCGCTCAGCTCTCTGAGTTTCTCTGCACGTGC 1267
Db      |||
QY 897 GACCCGGGTCGAGCCCTCTGTGACACCGCTCAGCTCTCTGAGTTTCTCTGCACGTGC 956
Db      |||
QY 1268 CGAGGCGATGGAGTACCTGGAGGCAAGAGCTGTGTGACCGGAGCTGTGCGCCCGCAA 1327
Db      |||
QY 957 CGAGGCGATGGAGTACCTGGAGGCAAGAGCTGTGTGACCGGAGCTGTGCGCCCGCAA 1016
Db      |||
QY 1328 CATCTCTGTCTCAGAGACCTGTGTGCAAGGTTCAGGCTGTTGGCTGTGCAAAAGCCGA 1387
Db      |||
QY 1017 CATCTCTGTCTCAGAGACCTGTGTGCAAGGTTCAGGCTGTTGGCTGTGCAAAAGCCGA 1076
Db      |||
QY 1388 GCGGAAGGGGCTAGATCAAGACCGGTGTGCGCTCAAGTGTGACGCGCCGAGGCTCTCAA 1447
Db      |||
QY 1077 GCGGAAGGGGCTAGATCAAGACCGGTGTGCGCTCAAGTGTGACGCGCCGAGGCTCTCAA 1136
Db      |||
QY 1448 ACACGGGAAGTTTACACGAGAGCTGTGAGTGTCTGAGTTTGGGTGTGCTCTGAGGAGT 1507
Db      |||
QY 1137 ACACGGGAAGTTTACACGAGAGCTGTGAGTGTCTGAGTTTGGGTGTGCTCTGAGGAGT 1196
Db      |||
QY 1508 CTTCTCATATGAGCGGCTCCGTACCTAAATGTCTCACTGAAAGAGGTGTGCGAGGCGGT 1567
Db      |||
QY 1197 CTTCTCATATGAGCGGCTCCGTACCTAAATGTCTCACTGAAAGAGGTGTGCGAGGCGGT 1256
Db      |||
QY 1568 GGAGAGGGGTACCGCATGGAACCCCGAGGCGTGTCTCAGGCGCCCGTGCACGTCTCAT 1627
Db      |||
```

```

Db 1257 GGAGAGGGGTACCGCATGGHACCCCCCGAGGGCTGTCCAGGCCCGGTGCACGTCTCAT 1316
QY 1628 GAGCAGTGTCTGGAGGAGAGCCCGCCGCGCCACCCCTTCGCAAACTGSCCGAGAA 1687
Db 1317 GAGCAGTGTCTGGAGGAGAGCCCGCCGCGCCACCCCTTCGCAAACTGSCCGAGAA 1376
QY 1638 GCTGCGCGGAGAGTACGACGTGACAGTGTGCGCCAGCCTCTCTCAGGGCAGGAGCGCGA 1747
Db 1377 GCTGCGCGGAGAGTACGACGTGACAGTGTGCGCCAGCCTCTCTCAGGGCAGGAGCGCGA 1436
QY 1748 CCGTCTCACTTCGCGCCCGGAGCCAGGAGCCTGACCCACCCCGGTGGGCGCCCTTGGCCCC 1807
Db 1437 CCGTCTCACTTCGCGCCCGGAGCCAGGAGCCTGACCCACCCCGGTGGGCGCCCTTGGCCCC 1496
QY 1898 AGAGACCCGAGAGTGTGAGAGTGTGCGGGCTGGGGGCACTGACAGGCCACAGGAGGCTCC 1867
Db 1497 AGAGACCCGAGAGTGTGAGAGTGTGCGGGCTGGGGGCACTGACAGGCCACAGGAGGCTCC 1556
QY 1858 AGGCGGGCAAGTCTCTCTCTGTCGCCACAGCAGGGGCTGGCCCACTAGGGGGCTCTG 1927
Db 1557 AGGCGGGCAAGTCTCTCTCTGTCGCCACAGCAGGGGCTGGCCCACTAGGGGGCTCTG 1616
QY 1928 CCGCGCCCGTGGACACACCCCGAGACCTGCGAAGATGATCGCCGATPAAAGACGGATTCTAA 1987
Db 1617 CCGCGCCCGTGGACACACCCCGAGACCTGCGAAGATGATCGCCGATPAAAGACGGATTCTAA 1676
QY 1988 GGACTCTTAAAAA 2000
Db 1677 GGAAAAA 1689

RESULT 10
US-10-280-576-24
; Sequence 24, Application US/10280576
; Publication No. US20040044405A1
; GENERAL INFORMATION:
; APPLICANT: Wolff, Matthew R.
; TITLE OF INVENTION: VASCULAR STENT OR GRAFT COATED OR IMPREGNATED WITH PROTEIN
; FILE REFERENCE: 09820.189
; CURRENT APPLICATION NUMBER: US/10/280,576
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 60/343,732
; PRIOR FILING DATE: 2001-10-25
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 24
; LENGTH: 1518
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-280-576-24

Query Match      54.8%; Score 1096.8; DB 13; Length 1518;
Best Local Similarity 83.4%; Pred. No. 8.7e-269;
Matches 1271; Conservative 0; Mismatches 247; Indels 6; Gaps 2;

QY 258 ATGGCGGGCGGAGGCTCTCTGCTTCTCTGCGGGCAATTCACGGCTGTGATTCTGCTGAG 317
Db 1 ATGGCAAGCGGAAGCTCCCGGGTCTCTCTGCTGCGCTTTGAAGGCTGGGAATCTAG---G 57
QY 318 GAACCTTCCCGGGTGAAGCCCGCGCTCTCTCCAGGCTGGCACCCCGCTCCCGCTCTCAGCC 377
Db 58 GACCTCTCTCTGGGTGAGCCCTTAGATTGTTCGAGCTTGTGCAACCCCGCGCTCTGTCAGCT 117
QY 378 AGGATCCCAACGAGGCGCTGGGCGCCCGGCAACCGAGTGTATCACCAATTCGAGAGCAACC 437
Db 118 AGGATCCCAAC---GCGCTGGGCGCCCTGGGACTCTATGATGACCAAGTGTGAGAACTCT 174
QY 438 CGCCCGCAAGCGGAGCTGGCTTTCGCAAGGCGAGCTGTGTCTACCACTCTCTGAGGCGC 497
Db 175 CGCCCGCAAGCGGAGCTGGCTTTCGAAAGGGTGACATGTGTGACCATCTTTGAGAGGCC 234
QY 498 TGGGAGAACAGAGAGCTGTGTCGCGTCAAGACCAACACAGTGGACAGGAGGGGCTGCTG 557
```

Db 235 TGTGAGGCAAGAGCTGTACCGAGCCAAAGCAACCAATGCGAGTGGGAGGAAGGGTGTCTG 294
Qy
Db 558 GCAGCTTGGGCGCGCTGGGAGGGAGGCCCTCTCTCGCAGAGACCCCAAGCTCAGCCTCATG 617
Qy
Db 295 GCGGCGCGTCTCTGCGACAGCGGGAGGCCCTCTCCACAGACCCCAAGCTCAGCCTCATG 354
Qy
Db 618 CCGTGGTTCACGGGAGAGATCTCGGGCCAGGAGGCTGTCCAGAGCTCAGCCTTCCGAG 577
Qy
Db 355 CCATGGTTCATGGCAAGATCTCCGGCCAGGAGCCATACAGCAGCTGAGGCCACCCGAG 414
Qy
Db 678 GATGGCTCTCTCTGTGGGAGTCCGGCGCCACCCCGGGGACTACGCTCTGTGGTG 737
Qy
Db 415 GACGGCTCTCTCTGTGGGAGATCAGCTGTCTACCCCTGGAGACTATGTCTGTGTGTC 474
Qy
Db 738 AGCTTTGGCGCGACGTCTACCACTACCGCGTGTCTACCGCGAGCGGCCACCTCAATC 797
Qy
Db 475 AGTTTCGGCGGTGACGCTCATCCACTACCGTGTCTTCATCGAGATGGGCACCTCAATC 534
Qy
Db 798 GATGAGCGGTGTCTCTGCAACCTCATGGACATGGTGAGCATTTACAGCAAGGACAG 857
Qy
Db 535 GATGAGCGGTGTCTCTGCAACCTCATGGACATGGTGAGCATTTACAGCAAGGACAG 594
Qy
Db 858 GCGCTATCTGCACCAAGCTGTGTGAGCAACAAAGCGAACAACAGGACCAAGTCGGCGAG 917
Qy
Db 595 GGGGCCATCTGCACCAAGCTGTGTGAGCAACAAAGGAGGAACAGGGCCAAAGTCTGCAG 654
Qy
Db 918 GAGGAGCTGGCCAGGCGCGCTGTGTACTGAACCTGCAGCATTTGACATTTGGAGACAG 977
Qy
Db 655 GAGGAGCTGGCCAGGCGCGCTGTGTACTGCAGCTGCAGCATTTGACATTTGGAGACAG 714
Qy
Db 978 ATCGGAGAGGAGATTTGAGCTGTCTGACGGGTGAGTACTCGGGCAAAAGTGGCC 1037
Qy
Db 715 ATTGGAGAGGGGAGTTTGGAGCCGCTCTACAGGGTGTGTACTCGGGACAGAGTGGCT 774
Qy
Db 1038 GTGAAGATATCAAGTGTGTATGACAGCCAGCCCTTCTGACAGAGCGGCCCTCATG 1097
Qy
Db 775 GTGAAGATATCAAGTGTGTATGACAGCCAGCCCTTCTGATGAGAGCGGTGTGATG 834
Qy
Db 1098 ACGAAGATGCAACACAGAGAACCTGTGTCTCTCGGGGTGTATCTCTGACAGGGGCTG 1157
Qy
Db 835 ACGAAGCTGCAGCACAGGAACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 894
Qy
Db 1158 TACATTTGTATGAGACACGTGTGACAGGCAACCTGTGTGTGTGTGTGTGTGTGTGTGT 1217
Qy
Db 895 TACATTTGTATGAGACACGTGTGACAGGCAACCTGTGTGTGTGTGTGTGTGTGTGTGT 954
Qy
Db 1218 CGAGCCCTCTGTGAACACCGCTCAGCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1277
Qy
Db 955 CGTGTCTTTGTGAGACCTCTAGCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1014
Qy
Db 1278 GAGTACCTTGAGAGCAAGAGT 1337
Qy
Db 1015 GAATACCTTGAGAGCAAGAGT 1074
Qy
Db 1338 TCGAGAGACCTGT 1397
Qy
Db 1075 TCTGAGGACTTGT 1134
Qy
Db 1398 CTAGATCTMAACCGGCTGT 1457
Qy
Db 1135 CTGAGCTCAAGCGGCTGT 1194
Qy
Db 1458 TTCAACAGCAAGT 1517
Qy
Db 1195 TTCTCCAGCAAGT 1254
Qy
Db 1518 GAGCGGCTCGGTACCTCAAAATGTCTCAAAAGAGTGTGTGTGTGTGTGTGTGTGTGTGT 1577
Qy
Db 1255 GGAAGAGCCCCATACCCCAAGT 1314
Qy
Db 1578 TACCGATGGAACCCCGGAGGGT 1637

Db 1315 TACCCATGAGGCCCGCCGATGGCTGCCAGGCTCTGTGCACACCCCTCATGSETAGTCC 1374
Qy
Db 1638 TGGAGGAGAGCCCGCCCGCGGCCACCCCTTCCCAAAATGGCCGAGAGCTGGCCGG 1697
Qy
Db 1375 TGGAGGAGAGGCTGTGCGCGGACACCCCTTCCCAAAATAGTGGAGAGCTGGCCGT 1434
Qy
Db 1698 GAGCTACACAGTGTGAGTGTGCGGCCAGGCTCTGTGCAGGCGAGGAGCGGCTGCCACC 1757
Qy
Db 1435 GAGCTCCGAGTGTGGTGTCTGCGCCCGCCGCTGGGGACAGAGGCTGAGGGCTCAGCT 1494
Qy
Db 1758 TCGCCCGAAGCCAGGAGCCCTGA 1781
Qy
Db 1495 CCCACAGGAGCCAGACCCCTGA 1518
RESULT 11
US-10-280-576-2
; Sequence 2, Application US/10280576
; Publication No. US20040044405A1
; GENERAL INFORMATION:
; APPLICANT: Wolfie, Matthew R.
; TITLE OF INVENTION: VASCULAR STENT OR GRAFT COATED OR IMPREGNATED WITH PROTEIN
; FILE REFERENCE: 09820.189
; CURRENT APPLICATION NUMBER: US/10/280,576
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 60/343,732
; PRIOR FILING DATE: 2001-10-25
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1353
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-280-576-2

Query Match 27.4%; Score 547.6; DB 13; Length 1353;
Best Local Similarity 64.9%; Pred. No. 38-129;
Matches 846; Conservative 0; Mismatches 449; Indels 9; Gaps 2;
Qy 395 CTGGGCGCCGGGACCCCACTGTATCAACAAATGCGAGCACCCCGCCCAAGCCAGGGGA 454
Db 21 CTGGCCATCCGGTACAGAAATGATTGCCAAAGTACAATTTCCACGGCACTGCCAGCAGGA 80
Qy 455 GCTGGCTTCCCGAAGGGGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 514
Db 81 CTGCCCCCTTCTCAAAAGGAGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 140
Qy 515 GTACCGCGTCAAGCACACACAGTGGACAGAGGGGCTGTGTGTGTGTGTGTGTGTGTGTGT 574
Db 141 GTACAAAGCA--AAACAGAGTGGGCGGTGAGGCGATCATCCAGCAACTACGTCCA 197
Qy 575 GGAGCGGAGGCGCTTCCGAGACCCCAAGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCT 634
Db 198 GAAGCGGAGGCGCTGAGGCGGCTACCAAACTCAGCTCAGCTCAGCTCAGCTCAGCTCAG 257
Qy 635 GATCTGGGCGGAGGAGCTGT 694
Db 258 GATCACAGGAGAGGCTGAGCGGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 317
Qy 695 GCGGAGTCCGGGCGGCGACCCCGGAGCTACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 754
Db 318 GGGGAGAGCAACAACTACCCCGAGACTACAGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 377
Qy 755 CATCTACTACGGGT 814
Db 378 GGAGCACTACCGCATCATGTACCATGCCAGCAAGCTCAGCATCGACAGGAGGTGTACTT 437
Qy 815 CTGCAACTCAGGATGT 874
Db 438 TGAGAACCTCAGGAGT 497
Qy 875 GGTGTGTGAGACAAAGCGGAAACAGGGGACCAAGTGTGTGTGTGTGTGTGTGTGTGTGT 934

498 CCTCAITTAACCAAGGTCATGAGGGGCAAGTGGGGGCCAGGATGATGTTTACGGCAG 557
935 GGCTGTTTACTGAACCTGAGCATTTGACATTTGGGAGCACAGATCGGAGAGGAGATT 994
558 CGGTGGGCTTGAATGAGAGAGTGAAGTCTGCTGACACCATCGGAGAGGGGAGTT 617
995 TGGAGTGTCTCTGAGGGTGAAGTCTGAGGGGCAAAAGTGGGGTGAAGATATCAAGTG 1054
618 CGGAGAGTGTATGCTGGGCGATACCGAGGGAACAAAGTGGCGCTCAAGTGCATTAAGAA 677
1055 TGATGTGACAGCCAGGCTTCTTGGAGAGAGACGGGCGTCTATGACGAGAGATGAACACGA 1114
678 CGAGCCACCTGCCAGGCTTCTTGGCTGAAGCTCATGACGCACTGCGGCGATAG 737
1115 GAACCTGCTGCTCTGCTGGGCGTATCTTGCACAG-----GGGCTGTACATTTGTCAT 1168
738 CAACCTGGTGAGCTCTGGGCGTGTCTGGAGAGAGAGGGGCGGCTCTACATCGTAC 797
1169 GAGACAGTGAAGGCAACCTGGTGAATTTCTCGGACCCGGGCTGAGCCCTCGT 1228
798 TGAGTACATGSCCAAGGGAGCTTGTGGACTACCTGGGTCTAGGGGTCTCGTCACTGCT 857
1229 GAAACCGCTCAGCTCTGCTGAGTTTCTCTGACGTGGCCGAGGCGATGGAGTACCTGGA 1288
858 GGGCGGAGACTGTCTCTCAAGTCTCGCTAGATGTCTGCGAGGCGATGGAGTACCTGGA 917
1289 GAGCAAGAGCTTGTGACCGCGACCTGGCGCGCCGCAACATCTCTGCTCTCAGAGGACCT 1348
918 GGGCAACAAATTTGTCATGACAGCTGGCTGGCTGGCGGAGATGTCTGGGTCTGAGGACAA 977
1349 CGTGCCCAAGGTGACGCACTTTGGCTTGGCCCAAGCCGAGCGGAGAGGGGTAGACTCAAG 1408
978 CGTGCCCAAGGTGACGCACTTTGGCTTGGCCCAAGCCGAGCGCTCCAGACCCAGGACACGGG 1037
1409 CGGCTGCTGCTCAAGTGAAGCGGCGCCGAGCTCTCAACACGGGAGATTCAACAGCAA 1468
1038 CAAGTGCAGTCAAGTGAAGCGGCTTGGCTTGGCCCAAGCCGAGCGCTCCAGACCCAGGACACGGG 1097
1469 CTGCGATCTGAGGTTTGGGCTGCTCTGCGAGGCTTCTCTCATATGACGCGGCTCC 1528
1098 GTCTGACGTGAGGTTTGGGATCTCTCTCTGCGGAAATCTACTCTTTGGCGAGTGGC 1157
1529 GTACCTCAAAATGTCACTGAAGAGGTGTGAGGCGGCTGAGAGGGGTACCGCATGA 1588
1158 TTATCCAAAGATTTCCCTGAGAGAGCTGTCTGCTGGGTGAGAGGGGTACAAGATGA 1217
1589 ACCCGCGAGGCTGTCCAGGCGCGCTGCACTCTCATGACAGCTGTCTGGAGGCGAGA 1648
1218 TGCCCCCGACGGCTGCCCCCGCCAGTCTATGAAGTCAATGAAGTCTGCTGSCACTGGA 1277
1649 GCGCGCGCGCGGCGCACTCTCGCAAACTGGCGCGAGAGAGCTGG 1692
1278 GCGCGCGCATGGGCGCTCTCTCTACAGCTCCGAGAGAGCTGG 1321

RESULT 12
US-09-954-531-188
; Sequence 188, Application US/09954531
; Patent No. US20020165180A1
; GENERAL INFORMATION:
; APPLICANT: Weaver, Zoe
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cand
; FILE REFERENCE: 689290-77
; CURRENT APPLICATION NUMBER: US/09/954,531
; CURRENT FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: US/60/233,133
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,009
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,034
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,509

; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US/60/234,567
; PRIOR FILING DATE: 2000-09-22
; NUMBER OF SEQ ID NOS: 1392
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 188
; LENGTH: 2187
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-531-188

Query Match 27.4%; Score 547.6; DB 9; Length 2187;
Best Local Similarity 64.9%; Pred. No. 3.2e-129;
Matches 846; Conservative 0; Mismatches 449; Indels 9; Gaps 2;

395 CTGGGCCCCGGGCAACCCAGTGTATCACCATAATGGGACACACCGGCCCAAGCCAGGCGGA 454
154 CTGGCCATCCGCTACAGATGTATTCGCAAGTACAACCTTCAACGGCACTGCCGAGCAGA 213
455 GCTGGCTTCCGCAAGGGCGACGTGTACCATCTCTGAGGCGCTTCGAGAACCAAGAGCTG 514
214 CCTGCCCTTCTGCAAGAGGAGACGTGTCTACCATTTGTGGCGTCAACCAAGGACCCCACTG 273
515 GTACCGGCTCAAGCACACACACACAGTGGACAGGAGGGCTGTCTGGCAGCTGGGGGCGCTCG 574
274 GTACAAAGCCA---AAACAAAGGTGGGCGGTAGGGGATCATCCAGCCAACTACGTCCA 230
575 GGACGGGAGGCCCTCTCCGACAGACCCCAAGCTCAGCTCAGCTGTCTGCTGGTTCACAGGAA 634
331 GAACGGGAGGGCTGAAGGGGGGTACCAACTCAGGCTCATGCTTGGTTCACGGGCA 390
535 GATCTGGGCGCAGAGGCTGTCCAGCAGCTCGACGCTCCGAGGATGGGCTGTCTCTGCT 694
391 GATCACACGGGAGCAGGCTGAGCGCTTCTGTACCCGCGGAGACAGGCTGTCTCTGCT 450
695 CGCGAGTTCGCGGGCCACCCCGGCGACTACGTCCTGTGTGCTGAGCTTTGGCGGAGCT 754
451 CGGGAGAGACCACTACCCCGGAGACTACAGCTGTGTGCTGAGCTGCGACGGCAAGGT 510
755 CATCACTACCGGCTGTGACCGGAGCGCCACCTCACAATCGATGAGGCGGTCTTCT 814
511 GGAGCACTACCGCATCATGTACCATGCGCAGCAAGCTCAGCATCGACGAGGAGGTACT 570
815 CTGCAACTCATGTCATGTGGAGCTTACAGCAAGGACCAAGGCGCTATCTGCACCAA 874
571 TGAGAACCTCATGAGCTGTGGGAGCTACACTCAGACGAGATGGACTCTGTACGG 630
875 GTGTGTGAGACCAAGAGCGGAAACACCGGACCAAGTTCGCGCGGAGGAGAGCTGGCCAGG 934
631 CTTCAATTAACCAAGGTTCATGGAGGCACTGAGGGGCACTGGCGGCGCCAGGATGAGTTCTACGGCAG 690
935 GGGCTGGTTACTGAACCTTGCAGCATTTGACATTTGGGAGCACAGATCGGAGAGGAGATT 994
691 CGGCTGGGCGCTGAACATGAAGAGCTGAAGCTGTGTGACAGCATTCGGGAAAGGGGAGTT 750
995 TGGAGCTGTCTGCGAGGCTGAGTACTCTGGGCGCAAAAGGTGGCGCTGAAGAAATCAAGTG 1054
751 CGGAGACGTGATCTGGGCGATTAACGAGGAGACAAAGTTCGCGCTCAAGTGAATTAAGAA 810
1055 TGATGTGACAGCCCGAGGCTTCTCTGACGAGACGGCGCTCATGACGAAGATGCAACACGA 1114
811 GACGCGCACTGCGGAGGCTTCTCTGCTGAGCTCAAGCTCAGTCATGACCAACTCGGGCATAG 870
1115 GAACCTGGTGTCTCTCTGGGCTGATCTCTGACCAAG-----GGGCTGTACATTTGCTAT 1168
871 CAACCTGGTGCAGCTCTCTGGGCTGATCTGTGGAGGAGAAAGGGGCGGCTCTATCATCTGTCAC 930
1169 GAGGACGCTGAGCAAGGCGAACTCTGTGAACTTTCTGCGGACCCGGGCTGAGCCCTCGT 1228
931 TGAGTACATGGCCAGGGGAGGCTTGTGGACTACCTGCGGTCTAGGGGTGGGTGAGTCT 990
1229 GAACACCGCTCAGCTCTCTGAGTGTCTCTGACGCTGTCGCGGAGGCGATGAGTACCTGGA 1288


```
QY 1589 ACCCCCCAGGCTGTCCAGGCCCGTGCACCTCTCATGACAGCTGCTGGAGGCAGA 1648
Db 1351 TCGCCCGAGCGCTGCCCGCGCAGTCTATGAAGTCATGAAGAACTGCTGCACCTGGA 1410
QY 1649 GCCCGCCCGCGCCACCTTCGGCAAACTGCCGAGAGCTGG 1692
Db 1411 CGCCGCCCATCGCGCCCTCTCTCATAGCTCCGAGAGAGCTTG 1454

RESULT 15
US-10-388-360-322
; Sequence 322, Application US/10388360
; Publication No. US20030225528A1
; GENERAL INFORMATION:
; APPLICANT: GENOMIC HEALTH
; APPLICANT: Baker, Joffrey B.
; APPLICANT: Cronin, Maureen T.
; APPLICANT: Kiefer, Michael C.
; APPLICANT: Shak, Steve
; APPLICANT: Walker, Michael Graham
; TITLE OF INVENTION: GENE EXPRESSION PROFILING IN BIOPSIED TUMOR TISSUES
; FILE REFERENCE: 39740-000105
; CURRENT APPLICATION NUMBER: US/10/388,360
; PENDING FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: US 60/412,049
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US 60/364,890
; PRIOR FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 384
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 322
; LENGTH: 2420
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-388-360-322

Query Match 27.4%; Score 547.6; DB 13; Length 2420;
Best Local Similarity 64.9%; Pred. No. 3.2e-129;
Matches 846; Conservative 0; Mismatches 449; Indels 9; Gaps 2;

QY 395 CTGGCCCGGGGACCCAGTGTATCCCAATCGGAGCACACCGCCCGCAAGCCAGGGA 454
Db 433 CTGGCCATCGGTACAGATGTATTGCCAAGTACAACTTCCACGGCACTGCCGAGCAGA 492
QY 455 GCTGGGCTTCGCAAGGGGACCTGTACCATCTCTGGAGGCTGGGAGAACAAAGAGCTG 514
Db 493 CTGGCCCTTCGCAAGGAGAGCTGTACCATTTGGCGGTCAACAAAGACCCCACTG 552
QY 515 GTACCGCGTCAAGCACCAACCGAGTGGACAGGAGGGGCTCTGGCAGCTGGGCGCTGCG 574
Db 553 GTACAAAGCCA---AAAAACAAGTGGGCGCTGAGGGGCAATCATCCCAAGCCAACTACGTCCA 609
QY 575 GGAGCGGGAGGCGCTCTCCGACAGCCCAAGCTCAGCTCATGCGGTGTTCCACGGAA 634
Db 610 GAAGCGGGAGGGCTGAGCGGGGTACCAAACTCAGCTCATGCTTGTTCACGGCAA 669
QY 635 GATCTCGGGCCAGAGGCTGTCCAGAGCTGCAGCTTCCGAGAGTGGGTGTCTCTGCT 694
Db 670 GATCACAAGGAGCAGGCTGAGCGGCTTGTGTACCCCGGAGACAGGCTGTCTCTGCT 729
QY 695 GCGGAGTCCGCGGCGGCGGCGGAGCTAGTCTCTGTGGTGTGAGCTTTGGCGCGAGCT 754
Db 730 GCGGAGAGCACCACCTACCCCGGAGACTACGCTGTGCTGTGAGCTGCGACGGCAAGGT 789
QY 755 CATCACTACCGCTGTGACCGCGGAGCCACTCACAATCGATGAGGCGCTGTCTTT 814
Db 790 GGACCACTTACCGATCATGTACCATGTCCAGCAAGCTCAGCATCGACGAGAGGTGTACTT 849
QY 815 CTGCAACCTCATGACATGTTGGAGCATTAAGCAAGGACAAAGGCGGCTATCTGCACAA 874
Db 850 TGAGAACCTCATGAGCTGTTGGAGCACTACACCTCAGACGACATGGACTCTGTACGG 909
QY 875 GCTGGTGAAGCAAAAGCGGAAACACGGGACCAAGTGGCGGAGGAGGAGCTGGCCAGGGC 934
```

```
Db 910 CTTCACTTAAACCAAGGTCATGAGGGCACAGTGGCGGCCCCAGGATGAGTTCTTCCGAG 969
QY 935 GGGCTGGTACTGAACCTTCAGCATTTGACATTTGGAGCACAGATCGGAGAGGAGATT 994
Db 970 CGGCTGGGCGCTGACATGAAGGAGCTGAAGCTGTGCGAGACCATCGGAAGGGGAGTT 1029
QY 995 TGGAGCTGTCTCTGAGGCTGAGTACCTGGGGCAAAAGTGGCGGTGAAGAAATCAAGTG 1054
Db 1030 CGGAGACGTGATGCTGGGCGATTAACGAGGGAACAAAGTCGCCGTCAAGTCATTAAAGAA 1089
QY 1055 TGATGTGACAGCCAGGCTTCTGACGAGACGCCGTCATGACGAAGATCAACACGA 1114
Db 1090 CGAGCCCATGTCGCCAGGCTTCTGCTGAGCCTCAGTCATGACGCACTCGGCATAG 1149
QY 1115 GAACTGTGTGCTCTCTGGCGTGAATCTGTCACCAAG-----GGGCTGTATTTGTAT 1168
Db 1150 CAACCTGGTGCAGCTCTGGGCGTGAATCTGTCGAGGAGGAGGCGGCTCTACATCTCTAC 1209
QY 1169 GGAGCAGTGGAGCAAGGCAACCTGGTGAATTTCTGCGGACCCGGGTCGAGCCCTCT 1228
Db 1210 TGAGTACATGGCCAAAGGAGGCTTGTGAGCTACCTGCGGTCTAGGGGTGCGTCACTGCT 1269
QY 1228 GAACACCGCTCAGCTCTGCTGAGTTTCTCTGACGTCGCGGAGGCGCATGAGTACCTGGA 1288
Db 1270 GGGCGAGAGCTGTCTCTCAAGTTCTGCTAGTGTCTGCGAGGCCAATGGAATACCTGGA 1329
QY 1289 GAGCAAGAGAGTGTGTCACCGGAGCTGTCGCCCGCAACATCTCTGCTCTGAGAGACCT 1348
Db 1330 GGGCAACCAATTTCTGTCGATCGAGACTGGCTGCGCGCATGTGCTGTCTGAGGACAA 1389
QY 1349 GGTGGCAGAGTTCAGGAGTTGGCTGGCCAAAGCCGAGCGGAGAGGCTAGACTCAAG 1408
Db 1390 CGTGGCCAGGTTCAGGAGCTTGGTCTCACCAGGAGGCTCCAGACCCAGGACACGGG 1449
QY 1409 CCGGCTGCCCGTCAAGTGGAGCGCGCCCGAGGCTCTCAAAACCGGGAAGTTCACCAAGCA 1468
Db 1450 CAAGCTGCCAGTCAAGTGGAGCGCCCTGAGGCGCTGAGAGAGAGAAATTCCTCACTAA 1509
QY 1469 GTGAGATGTCTGAGTTTGGGTTGCTGTCTGGGAGGCTTCTCATATGGAGCGGCTCC 1528
Db 1510 GTCTGAGCTGTGAGTTTCGGAATCTTCTCTGGGAATCTACTCTCTTTGGGCGAGTGCC 1569
QY 1529 GTACCTTAAATGTCACTGAAGAGGTTCGGAGGCGCTGGAGAGGGGTACCGCATGGA 1588
Db 1570 TTATCCCAAGAAATTCCTCCCTGAGGAGCTGCTCTATGAAGTCATGAAGACTGCTGGACAGTGA 1629
QY 1589 ACCCCCGGAGGCTGTCCAGGCGCCCTGCAACGTCCTCATGAGCAGCTGTGGGAGGACGA 1648
Db 1630 TGCCCGCGAGGCTGCGCGCGGAGCTCTATGAAGTCATGAAGACTGCTGGACAGTGA 1689
QY 1649 GCGCGCGCGCGGCGCAACCTTCCGGAACCTGGCCGAGAGAGCTGG 1692
Db 1690 CGCGCGCATCGCGCCCTCTCTTCTCAGCTCCGAGAGAGAGCTTG 1733
```

Search completed: May 21, 2004, 09:29:52

Job time : 885 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 19:04:17 ; Search time 22 Seconds
(without alignments)
1189.744 Million cells updates/sec

Title: US-09-977-260-2

Perfect score: 2671

Sequence: 1 MAGRGLSVWAFHCGDSAG3.....PASVSGQDAGSTSPRSQEP 507

Scoring table: BLOSUM62

Gapcp 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA:*
- 1: /cgn2_6/ptodata/2/iaa/5A COMB.pgp:**
 - 2: /cgn2_6/ptodata/2/iaa/5B COMB.pgp:**
 - 3: /cgn2_6/ptodata/2/iaa/6A COMB.pgp:**
 - 4: /cgn2_6/ptodata/2/iaa/6B COMB.pgp:**
 - 5: /cgn2_6/ptodata/2/iaa/PTCTUS COMB.pgp:**
 - 6: /cgn2_6/ptodata/2/iaa/backfiles1.pgp:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2671	100.0	507	4	US-08-426-509A-2
2	2671	100.0	507	4	US-08-232-545-2
3	2671	100.0	507	5	PCT-US95-05008-2
4	2664	99.7	507	2	US-08-604-989A-5
5	2445	91.5	527	4	US-08-315-328-2
6	2444	91.5	466	2	US-08-604-989A-4
7	2434.5	91.1	528	2	US-08-876-882-2
8	2012	75.3	386	4	US-09-741-154-4
9	2012	75.3	415	4	US-09-741-154-2
10	1269	47.5	246	2	US-08-604-989A-3
11	1245.5	46.6	450	4	US-08-426-509A-7
12	1245.5	46.6	450	4	US-08-232-545-7
13	1245.5	46.6	450	4	US-09-470-881-5
14	1245.5	46.6	450	5	PCT-US95-05008-7
15	797	29.8	269	2	US-08-701-191A-35
16	797	29.8	269	4	US-09-664-526-35
17	768	28.8	258	3	US-08-035-706-3
18	768	28.8	258	3	US-08-955-841-3
19	768	28.8	258	4	US-09-330-425-3
20	768	28.8	258	4	US-09-566-906-3
21	742.5	27.8	508	4	US-09-862-154-1
22	742.5	27.8	509	3	US-08-039-555B-17
23	742.5	27.8	509	4	US-08-426-509A-18
24	742.5	27.8	509	4	US-09-457-040B-8
25	742.5	27.8	509	4	US-08-232-545-18
26	742.5	27.8	509	5	PCT-US95-05008-18
27	733	27.4	533	4	US-09-470-881-3

28	732	27.4	533	1	US-07-820-011A-2	Sequence 2, Appli
29	732	27.4	533	5	PCT-US93-00445-2	Sequence 2, Appli
30	727	27.2	536	1	US-07-820-011A-4	Sequence 4, Appli
31	727	27.2	536	4	US-08-426-509A-13	Sequence 13, Appli
32	727	27.2	536	4	US-08-232-545-13	Sequence 13, Appli
33	727	27.2	536	5	PCT-US93-00445-4	Sequence 4, Appli
34	727	27.2	536	5	PCT-US95-05008-13	Sequence 13, Appli
35	720.5	27.0	505	4	US-08-426-509A-17	Sequence 17, Appli
36	720.5	27.0	505	4	US-08-232-545-17	Sequence 17, Appli
37	720.5	27.0	505	5	PCT-US95-05008-17	Sequence 17, Appli
38	710	26.6	543	4	US-08-426-509A-14	Sequence 14, Appli
39	710	26.6	543	4	US-08-232-545-14	Sequence 14, Appli
40	710	26.6	543	4	US-09-470-881-8	Sequence 8, Appli
41	710	26.6	543	5	PCT-US95-05008-14	Sequence 14, Appli
42	707	26.5	512	4	US-08-426-509A-16	Sequence 16, Appli
43	707	26.5	512	4	US-08-232-545-16	Sequence 16, Appli
44	707	26.5	512	5	PCT-US95-05008-16	Sequence 16, Appli
45	699.5	26.2	536	4	US-08-426-509A-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1
US-08-426-509A-2
; Sequence 2, Application US/08426509A
; Patent No. 6326469
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; APPLICANT: Gishizky, Mikhail
; APPLICANT: Sures, Irman G.
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
; TITLE OF INVENTION: TYROSINE KINASES
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennle & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York,
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/426,509A
; FILING DATE: 21-APR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/232,545
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-0074-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 507 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: No. 6326469e
; US-08-426-509A-2

Query Match 100.0%; Score 2671; DB 4; Length 507;
Best Local Similarity 100.0%; Pred. No. 3.le-219;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

09/ 977260

```
QY 1 MAGRGLSVWRAFHGCDSEELPRVSPRFLRAWHPPVPSARMPTRWAPGTQCIKCEHT 60
Db 1 MAGRGLSVWRAFHGCDSEELPRVSPRFLRAWHPPVPSARMPTRWAPGTQCIKCEHT 60
QY 61 RPKPGELAFRKGDDVVTILEACENKSWYRVKHTSGOGLLAAGALRERALSADPKLSLM 120
Db 61 RPKPGELAFRKGDDVVTILEACENKSWYRVKHTSGOGLLAAGALRERALSADPKLSLM 120
QY 121 PWFHKGISQCEAVQIOPPEDGLFLVRESARHPGDYVLCVSGRDVHYRVLRDGHILT 180
Db 121 PWFHKGISQCEAVQIOPPEDGLFLVRESARHPGDYVLCVSGRDVHYRVLRDGHILT 180
QY 181 DEAVFFCNLMDMVVEHYKDKGAICTKLVRPKRKHGTKSABEELARAGWLLNLQHLTLGAQ 240
Db 181 DEAVFFCNLMDMVVEHYKDKGAICTKLVRPKRKHGTKSABEELARAGWLLNLQHLTLGAQ 240
QY 241 IGEFGFVAVLQGEYLGQKVAVKNIKCDVTAQAFLEDAVTMTKQHENLVRLLVGLVILHQL 300
Db 241 IGEFGFVAVLQGEYLGQKVAVKNIKCDVTAQAFLEDAVTMTKQHENLVRLLVGLVILHQL 300
QY 301 YIVMEHVSKGNLVNLFRTGRALVNTAQILOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
Db 301 YIVMEHVSKGNLVNLFRTGRALVNTAQILOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
QY 361 SEDLVAKVSDFGLAERKGLDSSRLPVKWTAPBALKHGKFTSKSDVMSFGVILWEVFSY 420
Db 361 SEDLVAKVSDFGLAERKGLDSSRLPVKWTAPBALKHGKFTSKSDVMSFGVILWEVFSY 420
QY 421 GRAPYPKMSLKEVSEAVEKGYRMEPEPCGPGFVHVMSSCWEAEAPRPPFRKLAELAR 480
Db 421 GRAPYPKMSLKEVSEAVEKGYRMEPEPCGPGFVHVMSSCWEAEAPRPPFRKLAELAR 480
QY 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
```

RESULT 2

```
US-08-232-545-2
; Sequence 2, Application US/08232545
; Patent No. 6506578
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; APPLICANT: Gishizky, Vikhail
; APPLICANT: Sures, Iman G.
; TITLE OF INVENTION: No. 6506578el Megakaryocytic Protein Tyrosine
; TITLE OF INVENTION: Kinases
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,545
; FILING DATE: 22-APR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELEX: 66141 PENNIE
```

```
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 507 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-08-232-545-2

Query Match
Best Local Similarity 100.0%; Score 2671; DB 4; Length 507;
Matches 507; Conservative C; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGRGLSVWRAFHGCDSEELPRVSPRFLRAWHPPVPSARMPTRWAPGTQCIKCEHT 60
Db 1 MAGRGLSVWRAFHGCDSEELPRVSPRFLRAWHPPVPSARMPTRWAPGTQCIKCEHT 60
QY 61 RPKPGELAFRKGDDVVTILEACENKSWYRVKHTSGOGLLAAGALRERALSADPKLSLM 120
Db 61 RPKPGELAFRKGDDVVTILEACENKSWYRVKHTSGOGLLAAGALRERALSADPKLSLM 120
QY 121 PWFHKGISQCEAVQIOPPEDGLFLVRESARHPGDYVLCVSGRDVHYRVLRDGHILT 180
Db 121 PWFHKGISQCEAVQIOPPEDGLFLVRESARHPGDYVLCVSGRDVHYRVLRDGHILT 180
QY 181 DEAVFFCNLMDMVVEHYKDKGAICTKLVRPKRKHGTKSABEELARAGWLLNLQHLTLGAQ 240
Db 181 DEAVFFCNLMDMVVEHYKDKGAICTKLVRPKRKHGTKSABEELARAGWLLNLQHLTLGAQ 240
QY 241 IGEFGFVAVLQGEYLGQKVAVKNIKCDVTAQAFLEDAVTMTKQHENLVRLLVGLVILHQL 300
Db 241 IGEFGFVAVLQGEYLGQKVAVKNIKCDVTAQAFLEDAVTMTKQHENLVRLLVGLVILHQL 300
QY 301 YIVMEHVSKGNLVNLFRTGRALVNTAQILOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
Db 301 YIVMEHVSKGNLVNLFRTGRALVNTAQILOFSLHVAEGMEYLSKKLVHRDLAARNILV 360
QY 361 SEDLVAKVSDFGLAERKGLDSSRLPVKWTAPBALKHGKFTSKSDVMSFGVILWEVFSY 420
Db 361 SEDLVAKVSDFGLAERKGLDSSRLPVKWTAPBALKHGKFTSKSDVMSFGVILWEVFSY 420
QY 421 GRAPYPKMSLKEVSEAVEKGYRMEPEPCGPGFVHVMSSCWEAEAPRPPFRKLAELAR 480
Db 421 GRAPYPKMSLKEVSEAVEKGYRMEPEPCGPGFVHVMSSCWEAEAPRPPFRKLAELAR 480
QY 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
```

RESULT 3

```
PCT-US95-05008-2
; Sequence 2, Application PC/TUS9505008
; GENERAL INFORMATION:
; APPLICANT: Sugen, Inc.
; APPLICANT: 515 Galveston Drive
; APPLICANT: Redwood City, California 94063-4720
; APPLICANT: United States of America
; APPLICANT: Wissenschaften E.V.
; APPLICANT: Hofgarten Str. 2
; APPLICANT: Munchen 80539
; APPLICANT: Germany
; TITLE OF INVENTION: Novel Megakaryocytic Protein Tyrosine
; TITLE OF INVENTION: Kinases
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
```

```

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/05008
; FILING DATE: 24-APR-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/232,545
; FILING DATE: 22-APR-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-074
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)790-9090
; TELEFAX: (212)869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 507 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; PCT-US95-05008-2

```

```

Query Match      100.0%; Score 2671; DB 5; Length 507;
Best Local Similarity 100.0%; Pred. No. 3.1e-219;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGGSLVSWRAFHGCDSEBELPRVSPRLRAWHPPVPSARMPTRWAPGTQCIKCEHT 60
Db 1 MAGGSLVSWRAFHGCDSEBELPRVSPRLRAWHPPVPSARMPTRWAPGTQCIKCEHT 60

QY 61 RPKGELAFKGDVVVTLLEACENKSWYRVKHTSGQGLLAAGALRREALSADPKLSIM 120
Db 61 RPKGELAFKGDVVVTLLEACENKSWYRVKHTSGQGLLAAGALRREALSADPKLSIM 120

QY 121 PWFHGKISGQEAQQLOPPEDGLFLVESARHPGDYVLCVSGFRDVIHYRVLHRDGHITI 180
Db 121 PWFHGKISGQEAQQLOPPEDGLFLVESARHPGDYVLCVSGFRDVIHYRVLHRDGHITI 180

QY 181 DEAVFFCNLMDVHEVSKDKGAICTKLVRPKKHGKTSABEELARAGWLLNQLHTLGAQ 240
Db 181 DEAVFFCNLMDVHEVSKDKGAICTKLVRPKKHGKTSABEELARAGWLLNQLHTLGAQ 240

QY 241 IGEFGAVLQGEYLGQKVAVKNIKCDVTAQAFLDVAVMTKMOHENLVRLGLVILHQL 300
Db 241 IGEFGAVLQGEYLGQKVAVKNIKCDVTAQAFLDVAVMTKMOHENLVRLGLVILHQL 300

QY 301 YIVMEHVSNGNLVNFILTRGRALVNTAQLQFSLHVAEGMEYLESKKLVRDLAARNILV 360
Db 301 YIVMEHVSNGNLVNFILTRGRALVNTAQLQFSLHVAEGMEYLESKKLVRDLAARNILV 360

QY 361 SEDLVAKVSDPFLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVMSFGVLLWEVFSY 420
Db 361 SEDLVAKVSDPFLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVMSFGVLLWEVFSY 420

QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVPVHLMSSCWEAEPPARPPFRKLAELKAR 480
Db 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVPVHLMSSCWEAEPPARPPFRKLAELKAR 480

```

RESULT 4

US-08-604-989A-5

; Sequence 5, Application US/08604989A

```

; Patent No. 5834208
; GENERAL INFORMATION:
; APPLICANT: Sakano, S.
; TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/604,989A
; FILING DATE: February 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Charles S. Miller
; REGISTRATION NUMBER: 24,576
; REFERENCE/DOCKET NUMBER: 1920-026
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 507 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: human
; STRAIN: UT-7
; US-08-604-989A-5

```

```

Query Match      99.7%; Score 2664; DB 2; Length 507;
Best Local Similarity 99.8%; Pred. No. 1.2e-218;
Matches 506; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAGGSLVSWRAFHGCDSEBELPRVSPRLRAWHPPVPSARMPTRWAPGTQCIKCEHT 60
Db 1 MAGGSLVSWRAFHGCDSEBELPRVSPRLRAWHPPVPSARMPTRWAPGTQCIKCEHT 60

QY 61 RPKGELAFKGDVVVTLLEACENKSWYRVKHTSGQGLLAAGALRREALSADPKLSIM 120
Db 61 RPKGELAFKGDVVVTLLEACENKSWYRVKHTSGQGLLAAGALRREALSADPKLSIM 120

QY 121 PWFHGKISGQEAQQLOPPEDGLFLVESARHPGDYVLCVSGFRDVIHYRVLHRDGHITI 180
Db 121 PWFHGKISGQEAQQLOPPEDGLFLVESARHPGDYVLCVSGFRDVIHYRVLHRDGHITI 180

QY 181 DEAVFFCNLMDVHEVSKDKGAICTKLVRPKKHGKTSABEELARAGWLLNQLHTLGAQ 240
Db 181 DEAVFFCNLMDVHEVSKDKGAICTKLVRPKKHGKTSABEELARAGWLLNQLHTLGAQ 240

QY 241 IGEFGAVLQGEYLGQKVAVKNIKCDVTAQAFLDVAVMTKMOHENLVRLGLVILHQL 300
Db 241 IGEFGAVLQGEYLGQKVAVKNIKCDVTAQAFLDVAVMTKMOHENLVRLGLVILHQL 300

QY 301 YIVMEHVSNGNLVNFILTRGRALVNTAQLQFSLHVAEGMEYLESKKLVRDLAARNILV 360
Db 301 YIVMEHVSNGNLVNFILTRGRALVNTAQLQFSLHVAEGMEYLESKKLVRDLAARNILV 360

QY 361 SEDLVAKVSDPFLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVMSFGVLLWEVFSY 420
Db 361 SEDLVAKVSDPFLAKAERKGLDSSRLPVKWTAPALKHGKFTSKSDVMSFGVLLWEVFSY 420

QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVPVHLMSSCWEAEPPARPPFRKLAELKAR 480

```

Db 421 GRAPYKMSLKEVSEAVEKGYRMEPPRCGPGVFLMSSCWEAPRRPPRKLAEKAR 480
QY 481 ELSRAGAPASVSGQDADGTSRPSQEP 507
Db 481 ELSRAGAPASVSGQDADGTSRPSQEP 507

RESULT 5

US-09-315-928-2

; Sequence 2, Application US/09315928

; Patent No. 6368796

; GENERAL INFORMATION:

; APPLICANT: Avraham, Hava

; APPLICANT: Goodman, Jerome E.

; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT OF

; FILE REFERENCE: NEDH97-01P2Z

; CURRENT APPLICATION NUMBER: US/09/315,928

; PRIOR FILING DATE: 1999-05-20

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: US 60/035,228

; NUMBER OF SEQ ID NOS: 5

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 2

; LENGTH: 527

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-315-928-2

Query Match 91.5%; Score 2445; DB 4; Length 527;
Best Local Similarity 93.5%; Pred. No. 5.8e-200;
Matches 472; Conservative 1; Mismatches 18; Indels 14; Gaps 2;

QY 1 MAGRSLVSWRAFHGCDSEELPRVSPFRLRAWHPPVPSARMPTRWAPGTQCIKCEIT 60

Db 1 MAGRSLVSWRAFHGCDSEELPRVSPFRLRAWHPPVPSARMPTRWAPGTQCIKCEIT 60

QY 61 RPKGELAPRKGDVVTILEACENKSWYRVKHTSGOEGLLAAGALREHLSADPKLSIM 120

Db 61 RPKGELAPRKGDVVTILEACENKSWYRVKHTSGOEGLLAAGALREHLSADPKLSIM 120

QY 121 PWFHCKISGQEAQQQLPPEDGLFLVRSARHPGVDVLCVSTGRDVIHVRVLRHGHITI 180

Db 121 PWFHCKISGQEAQQQLPPEDGLFLVRSARHPGVDVLCVSTGRDVIHVRVLRHGHITI 180

QY 181 DEAVFPCNLMVMVEHYSKDGAICTKLVPRKPKHGTGSAEELARAGMLNLQHLTLGAQ 240

Db 181 DEAVFPCNLMVMVEHYSKDGAICTKLVPRKPKHGTGSAEELARAGMLNLQHLTLGAQ 240

QY 241 IGEFEGGAVLQGEYLQGVAVVNIKCDVTAQAFLEDTAVMTKQHENLVRLILGVILHQL 300

Db 241 IGEFEGGAVLQGEYLQGVAVVNIKCDVTAQAFLEDTAVMTKQHENLVRLILGVILHQL 300

QY 301 YIVMEHVSCKNLNPLRTRGRALVNTAQLQFSLHVAEGMEYLESKLVHRDLAARNILV 360

Db 301 YIVMEHVSCKNLNPLRTRGRALVNTAQLQFSLHVAEGMEYLESKLVHRDLAARNILV 360

QY 361 SEDLVAKVSDRGLAKAERKGLDSSRLPVKWTAPALTKGFTSKSDVMSFGVLLWEVFSY 420

Db 361 SEDLVAKVSDRGLAKAERKGLDSSRLPVKWTAPALTKGFTSKSDVMSFGVLLWEVFSY 420

QY 421 GRAPYKMSLKEVSEAVEKGYRMEPPRCGPGVFLMSSCWEAPRRPPRKLAEKAR 480

Db 421 GRAPYKMSLKEVSEAVEKGYRMEPPRCGPGVFLMSSCWEAPRRPPRKLAEKAR 480

QY 481 ELSRAGAPASVSGQDADGTSRPSQEP 505

Db 470 ---SANWPRSWEGYAVQVPPQSQ 491

RESULT 6

US-08-604-989A-4

; Sequence 4, Application US/08604989A

; Patent No. 5834208

; GENERAL INFORMATION:

; APPLICANT: Sakano, S.

; TITLE OF INVENTION: No. 5834208el Tyrosine Kinase

; NUMBER OF SEQUENCES: 11

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Pennie & Edmonds LLP

; STREET: 1155 Avenue of the Americas

; CITY: New York

; STATE: New York

; COUNTRY: USA

; ZIP: 10036-2711

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/604,989A

; FILING DATE: February 23, 1996

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Charles E. Miller

; REGISTRATION NUMBER: 24,576

; REFERENCE/DOCKET NUMBER: 1920-026

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 790-9090

; TELEX: (212) 869-8864/9741

; TELEX: 66141 PENNIE

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 466 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; ORIGINAL SOURCE:

; ORGANISM: human

; STRAIN: UT-7

US-08-604-989A-4

Query Match 91.5%; Score 2444; DB 2; Length 466;

Best Local Similarity 100.0%; Pred. No. 5.9e-200;

Matches 466; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 MPTRWAPGTQCIKCHTRPKGELAPRKGDVVTILEACENKSWYRVKHTSGOEGLLA 101

Db 1 MPTRWAPGTQCIKCHTRPKGELAPRKGDVVTILEACENKSWYRVKHTSGOEGLLA 60

QY 102 AGALRERREALSADPKLSIMPWFHCKISGQEAQQQLPPEDGLFLVRSARHPGVDVLCVS 161

Db 61 AGALRERREALSADPKLSIMPWFHCKISGQEAQQQLPPEDGLFLVRSARHPGVDVLCVS 120

QY 162 FGRDVIHVRVLRHGHITI DEAVFPCNLMVMVEHYSKDGAICTKLVPRKPKHGTGSAE 221

Db 121 FGRDVIHVRVLRHGHITI DEAVFPCNLMVMVEHYSKDGAICTKLVPRKPKHGTGSAE 180

QY 222 ELASAGMLNLQHLTLGAQIGEGFAGVLOGEYLGQVAVVNIKCDVTAQAFLEDTAVMT 281

Db 181 ELASAGMLNLQHLTLGAQIGEGFAGVLOGEYLGQVAVVNIKCDVTAQAFLEDTAVMT 240

QY 282 KMOHENLVRLILGVILHQLYIVMEHVSCKNLNPLRTRGRALVNTAQLQFSLHVAEGME 341

Db 241 KMOHENLVRLILGVILHQLYIVMEHVSCKNLNPLRTRGRALVNTAQLQFSLHVAEGME 300

QY 342 YLSKCLVHRDLAARNILVSEDLVAKVSDRGLAKAERKGLDSSRLPVKWTAPALTKGFT 401

Db 301 YLSKCLVHRDLAARNILVSEDLVAKVSDRGLAKAERKGLDSSRLPVKWTAPALTKGFT 360

QY 402 TSKSDVMSFGVLLWEVFSYGRAPYKMSLKEVSEAVEKGYRMEPPRCGPGVFLMSSC 461

Db 361 TSKSDVMSFGVLLWEVFSYGRAPY?KMSLKEVSEAVEKGYRMEPPPCGPGVHVHVMSSCW 420
 QY 462 EABPARRPPPKLAELKARELRSGAPASVSGQADGSTSPRSQEP 507
 Db 421 EABPARRPPPKLAELKARELRSGAPASVSGQADGSTSPRSQEP 466

RESULT 7
 US-08-876-882-2
 ; Sequence 2, Application US/06876882
 ; Patent No. 5981201
 ; GENERAL INFORMATION:
 ; APPLICANT: Avraham, Hava
 ; APPLICANT: Groopman, Jerome E.
 ; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT
 ; TITLE OF INVENTION: OF BREAST CANCER
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Hamilton, Brook, Smith & Reynolds P.C.
 ; STREET: Two Militia Drive
 ; CITY: Lexington
 ; STATE: MA
 ; COUNTRY: USA
 ; ZIP: 02173-4799
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: Windows
 ; SOFTWARE: FastSeq for Windows Version 2.0b
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/876,882
 ; FILING DATE: 16-JUN-1997
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 60/035,228
 ; FILING DATE: 08-JAN-1997
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Doreen, Fogle M
 ; REGISTRATION NUMBER: 36,361
 ; REFERENCE/DOCKET NUMBER: NEDH97-01pa
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 781-861-6240
 ; TELEFAX: 781-861-9540
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 528 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; FRAGMENT TYPE: internal
 US-08-876-882-2

Query Match 91.1%; Score 2434.5; DB 2; Length 528;
 Best Local Similarity 93.3%; Pred. No. 4.5e-199;
 Matches 472; Conservative 1; Mismatches 16; Indels 15; Gaps 3;

QY 1 MAGGSLVSWZAFHCCDSAEELPVSPPFLZAWHPPVVSARMPTRWAPGTCITKCEHT 60
 Db 1 MAGGSLVSWZAFHCCDSAEELPVSPPFLZAWHPPVVSARMPTRWAPGTCITKCEHT 60

QY 61 RPKFGELAFKRGDVVTI-LEACENKSWYRVKHHTSGQEGLLAAGALRREALSADPKLSL 119
 Db 61 RPKFGELAFKRGDVVTI-LEACENKSWYRVKHHTSGQEGLLAAGALRREALSADPKLSL 120

QY 120 MPWFHGKISQGEAVQQLQPPEDGGLFLVRESARHPGDYVLCVSFGRDVHYHVLHRDGHILT 179
 Db 121 MPWFHGKISQGEAVQQLQPPEDGGLFLVRESARHPGDYVLCVSFGRDVHYHVLHRDGHILT 180

QY 180 IDEAVFCNLMDVMEHYSHKDKGACTKLVRPKRKHGTSKAEELARAGWLNLQHLTLGA 239
 Db 181 IDEAVFCNLMDVMEHYSHKDKGACTKLVRPKRKHGTSKAEELARAGWLNLQHLTLGA 240

QY 240 QIGEGFAGVLOGEYLQGVAVVAVNIKCDVTAQAFDLDETAVMTKQKHENLVRLGLVILHQG 299
 Db 241 QIGEGFAGVLOGEYLQGVAVVAVNIKCDVTAQAFDLDETAVMTKQKHENLVRLGLVILHQG 300

QY 300 LYIVMEHVSNGNLVNLRTGRALVNTAQLLOFSLHVAEGMEYLESKLVHRDLAARNIL 359
 Db 301 LYIVMEHVSNGNLVNLRTGRALVNTAQLLOFSLHVAEGMEYLESKLVHRDLAARNIL 360

QY 360 VSEDLVAKVSDFGIAKAERKGLDSSSLPVKWTAPALKHGKFTSKSDVMSFGVLLMEVFS 419
 Db 361 VSEDLVAKVSDFGIAKAERKGLDSSSLPVKWTAPALKHGKFTSKSDVMSFGVLLMEVFS 419

QY 420 YGRAPYPMKSLKEVSEAVEKGYRMEPPPCGPGVHVHVMSSCWAEAPARRPPPKLAELKLA 479
 Db 420 YGRAPYPMKSLKEVSEAVEKGYRMEPPPCGPGVHVHVMSSCWAEAPARRPPPKLAELKLA 470

QY 480 RELSAGAPASVSGQADGSTSPRSQ 505
 Db 471 ----SANNPSPGSGYAVQVPPPSQ 492

RESULT 8
 US-09-741-154-4
 ; Sequence 4, Application US/09741154
 ; Patent No. 6437110
 ; GENERAL INFORMATION:
 ; APPLICANT: BEASLEY, Ellen M. et al
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 ; TITLE OF INVENTION: THEREOF
 ; FILE REFERENCE: CL001061
 ; CURRENT APPLICATION NUMBER: US/09/741,154
 ; CURRENT FILING DATE: 2000-12-21
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 4
 ; LENGTH: 386
 ; TYPE: PRT
 ; ORGANISM: Human
 US-09-741-154-4

Query Match 75.3%; Score 2012; DB 4; Length 386;
 Best Local Similarity 100.0%; Pred. No. 2.8e-163;
 Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 122 WFHGKISQGEAVQQLQPPEDGGLFLVRESARHPGDYVLCVSFGRDVHYHVLHRDGHILTID 181
 Db 1 WFHGKISQGEAVQQLQPPEDGGLFLVRESARHPGDYVLCVSFGRDVHYHVLHRDGHILTID 60

QY 132 EAVFPCNLMDVMEHYSHKDKGACTKLVRPKRKHGTSKAEELARAGWLNLQHLTLGAQI 241
 Db 51 EAVFPCNLMDVMEHYSHKDKGACTKLVRPKRKHGTSKAEELARAGWLNLQHLTLGAQI 120

QY 242 GEGEFAGVLOGEYLQGVAVVAVNIKCDVTAQAFDLDETAVMTKQKHENLVRLGLVILHQGLY 301
 Db 121 GEGEFAGVLOGEYLQGVAVVAVNIKCDVTAQAFDLDETAVMTKQKHENLVRLGLVILHQGLY 180

QY 302 IVMEHVSNGNLVNLRTGRALVNTAQLLOFSLHVAEGMEYLESKLVHRDLAARNILVS 361
 Db 181 IVMEHVSNGNLVNLRTGRALVNTAQLLOFSLHVAEGMEYLESKLVHRDLAARNILVS 240

QY 362 EDLVAKVSDFGIAKAERKGLDSSSLPVKWTAPALKHGKFTSKSDVMSFGVLLMEVFSYG 421
 Db 241 EDLVAKVSDFGIAKAERKGLDSSSLPVKWTAPALKHGKFTSKSDVMSFGVLLMEVFSYG 300

QY 422 RPYPMKSLKEVSEAVEKGYRMEPPPCGPGVHVHVMSSCWAEAPARRPPPKLAELKLA 481
 Db 301 RPYPMKSLKEVSEAVEKGYRMEPPPCGPGVHVHVMSSCWAEAPARRPPPKLAELKLA 360

QY 482 LRSAGAPASVSGQADGSTSPRSQEP 507
 Db 361 LRSAGAPASVSGQADGSTSPRSQEP 386

```

RESULT 9
US-09-741-154-2
; Sequence 2, Application US/09741154
; Patent No. 6437110
; GENERAL INFORMATION:
; APPLICANT: BEASLEY, Ellen M. et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001061
; CURRENT APPLICATION NUMBER: US/09/741,154
; CURRENT PILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Human
US-09-741-154-2

Query Match          75.3%; Score 2012; DB 4; Length 415;
Best Local Similarity 100.0%; Pred. No. 3.1e-163;
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 122 WFGCKISGQAVAOQLQPPEDGLFLVRESARHPGCVLYCVSFGRDVIHYRVLHREDGHLTID 181
Db 30 WFGCKISGQAVAOQLQPPEDGLFLVRESARHPGCVLYCVSFGRDVIHYRVLHREDGHLTID 89

QY 182 EAVFFCNLMDMVEHYSKDKGAICTKLVPRKKKGTGTSABEELARAGWLLNLOHLTITGAQI 241
Db 90 EAVFFCNLMDMVEHYSKDKGAICTKLVPRKKKGTGTSABEELARAGWLLNLOHLTITGAQI 149

QY 242 GEGEFGAVLQGEYLGQKVAVKNIKCDVTQAFLDETAVMTKMOHENLVRLGLLVILHQQGLY 301
Db 150 GEGEFGAVLQGEYLGQKVAVKNIKCDVTQAFLDETAVMTKMOHENLVRLGLLVILHQQGLY 209

QY 302 IVMEHYVSKGNLVNFLTTRGRALVNTAQLQFSLSHVAEGMEYLESKKLVHRDLAARNILVS 361
Db 210 IVMEHYVSKGNLVNFLTTRGRALVNTAQLQFSLSHVAEGMEYLESKKLVHRDLAARNILVS 269

QY 362 EDLVAKVSDPGLAKAERKGLDSSRLPYKVTAPDALKHGKFTSKSDVWSFGVLLWEVFSYG 421
Db 270 EDLVAKVSDPGLAKAERKGLDSSRLPYKVTAPDALKHGKFTSKSDVWSFGVLLWEVFSYG 329

QY 422 RAPIYPMWSLKEYSEAVEKGYRMEPPGQGPVHVLMSSCWEAEPAERPPFRKLAEKLADE 481
Db 330 RAPIYPMWSLKEYSEAVEKGYRMEPPGQGPVHVLMSSCWEAEPAERPPFRKLAEKLADE 389

QY 482 LRSAGAPASVSGDDADGTSPPRSQEP 507
Db 390 LRSAGAPASVSGDDADGTSPPRSQEP 415

```

```

RESULT 10
US-09-604-989A-3
; Sequence 3, Application US/08604989A
; Patent No. 5834208
; GENERAL INFORMATION:
; APPLICANT: Sakano, S.
; TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edwards LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

```

```

; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/604,989A
; FILING DATE: February 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Charles E. Miller
; REGISTRATION NUMBER: 24,576
; REFERENCE/DOCKET NUMBER: 1920-026
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 246 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: human
; STRAIN: UT-7
; US-08-604-989A-3

Query Match 47.5%; Score 1269; DB 2; Length 246;
Best Local Similarity 100.0%; Pred. No. 2.8e-100;
Matches 246; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 233 QHLTLGAQIGEGFGFAGVLQGEYLGQKVAVKNIKCDVTAQAFLDETAVMTKMQHENLVRL 292
DB 1 QHLTLGAQIGEGFGFAGVLQGEYLGQKVAVKNIKCDVTAQAFLDETAVMTKMQHENLVRL 60

QY 293 GVILHQGLYIVMEHVSCKNLVNFLETRGALVNTAQLQFSLHVAEGMEYLESKKLVERD 352
DB 61 GVILHQGLYIVMEHVSCKNLVNFLETRGALVNTAQLQFSLHVAEGMEYLESKKLVERD 120

QY 353 LAARNILVSEDILVAKVSDPGLAKAPRKGLDSSRLPVKWTAPDALKHGKFTSKSDVMSGCV 412
DB 121 LAARNILVSEDILVAKVSDPGLAKAPRKGLDSSRLPVKWTAPDALKHGKFTSKSDVMSGCV 180

QY 413 LLWEVPSYGRAPYPKMSLKEVSEAEKGYRMEPPGCGCPGVHVLMSWCWEAEPPARRPPPR 472
DB 181 LLWEVPSYGRAPYPKMSLKEVSEAEKGYRMEPPGCGCPGVHVLMSWCWEAEPPARRPPPR 240

QY 473 KLAEKL 478
DB 241 KLAEKL 246

RESULT 11
US-08-426-509A-7
; Sequence 7, Application US/08426509A
; Patent No. 6326469
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; APPLICANT: Gishizsky, Mikhail
; APPLICANT: Sures, Irman G.
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
; TITLE OF INVENTION: TYROSINE KINASES
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESS: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York,
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:

```

; APPLICATION NUMBER: US/08/426,509A
 ; FILING DATE: 21-APR-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/232,545
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Coruzzi, Laura A
 ; REGISTRATION NUMBER: 30,742
 ; REFERENCE/DOCKET NUMBER: 7683-0074-999
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 212-790-9090
 ; TELEFAX: 212-869-9741
 ; TELEX: 66141 PENNIE
 ; INFORMATION FOR SEQ ID NO: 7:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 450 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: No. 6326459e
 ; US-08-426-509A-7

Query Match 46.6%; Score 1245.5; DB 4; Length 450;
 Best Local Similarity 54.1%; Pred. No. 6.3e-96;
 Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;
 QY 47 WAPGTCITKCEHTRPKGELAPKGVNLTLEACENKSWRVKHTSGOGLLAAGALR 106
 DB 8 WPSGTECIANKYHFGHABQDLPPCKGDLTVAVTKDPNWKAKNKV-GREGIIPANYVQ 66
 QY 107 EREALSADPKLSIMPWFHKGISQEAQQQLPPEDGGLFVRESARHPDGYVLCVSGRDY 166
 DB 67 KREGVKAGTKLSIMPWFHKGITREQABRLYPETGLFVRESINPGDITLVCSDGKV 126
 QY 167 IHYRVLRDGLHITIDRAVFCNLMVMEHYSKDGAICTKLVRPKRKHGTSABEELARA 226
 DB 127 EHYRIMYHASKLSIDBEVYFENLMQVEHYTSADGLCTRLIKPKVMEGVAAQDEFYRS 186
 QY 227 GWLLNLQHLTLGAQIGEGEGFAGVLOGEYLGOKVAVKNIKCDVTAQAFLDETAVMKQHE 286
 DB 187 GWALNNKELKLQTIKGEGFDVNLGDRGNKVAVKICNDATAQAFLAASVMTQLRHS 246
 QY 287 NLVRLGLVILHQ--GLYIVMEHYSKGNLNFRLTRGRALVNTAQLLOFSLHVAEGMEYLE 344
 DB 247 NLVOLLGVIVEEGGLYIVTEYMAKGLVDYLSRGSVLGGCLLKFSLDVCEAMEYLE 306
 QY 345 SKKLVRDLAARNILVSEDLVAKVSDPGLAKAERKGLDSSRLPVKWTAPEALKHGFSTK 404
 DB 307 GNNFVHRDLAARNVLVSEDNVAKVSDPGLTKEASSTQDTGKLPVKWTAPEALREKKEFTK 366
 QY 405 SDVWSFGVLLWEVFSYGRAPYKMSLKEYSEAVEKCYRMEPPGCGPQVHVLMSSCWEAB 464
 DB 367 SDVWSFGILLWEIYSFGRVPYPIRLKDVVRVEKGYKMDAPDGCPPAVYEVKMKNCWHL 426
 QY 465 PARPPFPFKLAELK 478
 DB 427 AAMRPSFQLRQOL 440

RESULT 12
 US-08-232-545-7
 ; Sequence 7, Application US/08232545
 ; Patent No. 6506578
 ; GENERAL INFORMATION:
 ; APPLICANT: Ullrich, Axel
 ; APPLICANT: Gishizsky, Mikhail
 ; APPLICANT: Sures, Iman G.
 ; TITLE OF INVENTION: No. 6506578e1 Megakaryocytic Protein Tyrosine
 ; TITLE OF INVENTION: Kinases
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Pennie & Edmonds

; STREET: 1155 Avenue of the Americas
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 10036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/232,545
 ; FILING DATE: 22-APR-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Coruzzi, Laura A.
 ; REGISTRATION NUMBER: 30,742
 ; REFERENCE/DOCKET NUMBER: 7683-050
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212)790-9090
 ; TELEFAX: (212)869-9741
 ; TELEX: 66141 PENNIE
 ; INFORMATION FOR SEQ ID NO: 7:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 450 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: protein
 ; US-08-232-545-7

Query Match 46.6%; Score 1245.5; DB 4; Length 450;
 Best Local Similarity 54.1%; Pred. No. 6.3e-98;
 Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;
 QY 47 WAPGTCITKCEHTRPKGELAPKGVNLTLEACENKSWRVKHTSGOGLLAAGALR 106
 DB 8 WPSGTECIANKYHFGHABQDLPPCKGDLTVAVTKDPNWKAKNKV-GREGIIPANYVQ 66
 QY 107 EREALSADPKLSIMPWFHKGISQEAQQQLPPEDGGLFVRESARHPDGYVLCVSGRDY 166
 DB 67 KREGVKAGTKLSIMPWFHKGITREQABRLYPETGLFVRESINPGDITLVCSDGKV 126
 QY 167 IHYRVLRDGLHITIDRAVFCNLMVMEHYSKDGAICTKLVRPKRKHGTSABEELARA 226
 DB 127 EHYRIMYHASKLSIDBEVYFENLMQVEHYTSADGLCTRLIKPKVMEGVAAQDEFYRS 186
 QY 227 GWLLNLQHLTLGAQIGEGEGFAGVLOGEYLGOKVAVKNIKCDVTAQAFLDETAVMKQHE 286
 DB 187 GWALNNKELKLQTIKGEGFDVNLGDRGNKVAVKICNDATAQAFLAASVMTQLRHS 246
 QY 287 NLVRLGLVILHQ--GLYIVMEHYSKGNLNFRLTRGRALVNTAQLLOFSLHVAEGMEYLE 344
 DB 247 NLVOLLGVIVEEGGLYIVTEYMAKGLVDYLSRGSVLGGCLLKFSLDVCEAMEYLE 306
 QY 345 SKKLVRDLAARNILVSEDLVAKVSDPGLAKAERKGLDSSRLPVKWTAPEALKHGFSTK 404
 DB 307 GNNFVHRDLAARNVLVSEDNVAKVSDPGLTKEASSTQDTGKLPVKWTAPEALREKKEFTK 366
 QY 405 SDVWSFGVLLWEVFSYGRAPYKMSLKEYSEAVEKCYRMEPPGCGPQVHVLMSSCWEAB 464
 DB 367 SDVWSFGILLWEIYSFGRVPYPIRLKDVVRVEKGYKMDAPDGCPPAVYEVKMKNCWHL 426
 QY 465 PARPPFPFKLAELK 478
 DB 427 AAMRPSFQLRQOL 440

RESULT 13
 US-09-470-881-5
 ; Sequence 5, Application US/09470881
 ; Patent No. 6685938
 ; GENERAL INFORMATION:

```

; APPLICANT:  CHERESH, David A.
; APPLICANT:  ELICEIRI, Brian
; TITLE OF INVENTION:  METHODS AND COMPOSITIONS USEFUL FOR MODULATION OF
; TITLE OF INVENTION:  ANGIOGENESIS AND VASCULAR PERMEABILITY USING SRC OR
; TITLE OF INVENTION:  YES TYROSINE KINASES
; FILE REFERENCE:  TSRI 651.2
; CURRENT APPLICATION NUMBER:  US/09/470,881
; CURRENT FILING DATE:  1999-12-22
; PRIOR APPLICATION NUMBER:  PCT/US99/11780
; PRIOR FILING DATE:  1999-05-28
; PRIOR APPLICATION NUMBER:  60/087,220
; PRIOR FILING DATE:  1998-05-29
; NUMBER OF SEQ ID NOS:  8
; SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-09-470-881-5

Query Match          46.6%; Score 1245.5; DB 4; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.3e-98;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTCTCTKCEHTRPKPGSLARFGDVVTILEACENKSWYKHTSGOGLLAAGALR 106
Db 8 WPSGTCTIAKYNFHGTAEOQLPFCRGDVLTIVAVTKDPNWKAKNKV-GREGIIPANYVQ 66
QY 107 EREALSADPKLSLMPWFHKGISQEAVALQQLPPEDGLFLVRESARHPGDYVLCVSFRDV 166
Db 67 KREGVXAGTKLSLMPWFHKGITREQAERLLYPPETGLFLVRESYTNVPGDYTLCVSODGKV 126
QY 167 IHYRVLHRDGLTIDRAVFFCNLMQWVHYSKDKGAICTKLVRPKKHKGTKSAEELARA 226
Db 127 EHYRINYHASKLSIDBEVYFENLMQVHEHTSDADGLCTRLIKPKVMEGTVAQAQDEFYRS 186
QY 227 GWLLNLQHLTLGAQIGSGEFGAVLQGVAVKNIKCDVTAAQAFIDETAVMTKMOHE 286
Db 187 GWALNKKELKLTQIGKGFVMDYGRGNKVAVKCNKNDATAQAFLAASVMTQLRHS 246
QY 287 NLVRLGLVILHQ--GLYIVMEHVSCKNLVNFRTLRGRALVNTAQLQFLSLHVAEGMEYLE 344
Db 247 NLVQLLGVIVEKGGIYIVTEYMAKSLVDYLSRGRSVLGGDCLLKFSLDVCEAMEYLE 306
QY 345 SKKLVRDLAARNILVSDLVAKVSDFLGAERKGLDSSRLPVGKWTAPALKHGKFTSK 404
Db 307 GNNFVHRDLAARNVLVSDNVAKVSDFLGTKEASTQDTGKLPVKWTAPALREKKFTSK 366
QY 405 SDVWSFGVLLWEVFSYGRAPYKMSLKEYSEAVEKGYRMEPEGPCPGVHVLMSSCWEAE 464
Db 367 SDVWSFGILLWEIYSGRVPYPRIPKDVVPRVEKGYKMDADPGCPPAVIEVWKNCWILD 426
QY 465 PARPPFRKLAEKL 478
Db 427 AAMRPSFLQREQL 440

RESULT 14
PCT-US95-05008-7
Sequence 7, Application PC/US9505008
GENERAL INFORMATION:
; APPLICANT:  Sugen, Inc.
; APPLICANT:  515 Gaiveston Drive
; APPLICANT:  Redwood City, California 94063-4720
; APPLICANT:  United States of America
; APPLICANT:  Wissenschaften E.V.
; APPLICANT:  Hofgarten Str. 2
; APPLICANT:  Munchen 80539
; APPLICANT:  Germany
; TITLE OF INVENTION:  Novel Megakaryocytic Protein Tyrosine
; TITLE OF INVENTION:  Kinases
; NUMBER OF SEQUENCES:  21
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE:  Pernie & Edmonds
; STREET:  1155 Avenue of the Americas
; CITY:  New York
; STATE:  New York
; COUNTRY:  U.S.A.
; ZIP:  10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE:  Floppy disk
; COMPUTER:  IBM PC compatible
; OPERATING SYSTEM:  PC-DOS/MS-DOS
; SOFTWARE:  PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER:  PCT/US95/05008
; FILING DATE:  24-APR-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 08/232,545
; FILING DATE:  22-APR-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME:  Coruzzi, Laura A.
; REGISTRATION NUMBER:  30,742
; REFERENCE/DOCKET NUMBER:  7683-074
; TELECOMMUNICATION INFORMATION:
; TELEPHONE:  (212)790-9090
; TELEFAX:  (212)869-9741
; TELEX:  66141 PENNTE
; INFORMATION FOR SEQ ID NO:  7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 450 amino acids
; TYPE:  amino acid
; STRANDEDNESS:  unknown
; TOPOLOGY:  unknown
; MOLECULE TYPE:  protein
; PCT-US95-05008-7

```

```

Query Match          46.6%; Score 1245.5; DB 5; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.3e-98;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTCTCTKCEHTRPKPGSLARFGDVVTILEACENKSWYKHTSGOGLLAAGALR 106
Db 8 WPSGTCTIAKYNFHGTAEOQLPFCRGDVLTIVAVTKDPNWKAKNKV-GREGIIPANYVQ 66
QY 107 EREALSADPKLSLMPWFHKGISQEAVALQQLPPEDGLFLVRESARHPGDYVLCVSFRDV 166
Db 67 KREGVXAGTKLSLMPWFHKGITREQAERLLYPPETGLFLVRESYTNVPGDYTLCVSODGKV 126
QY 167 IHYRVLHRDGLTIDRAVFFCNLMQWVHYSKDKGAICTKLVRPKKHKGTKSAEELARA 226
Db 127 EHYRINYHASKLSIDBEVYFENLMQVHEHTSDADGLCTRLIKPKVMEGTVAQAQDEFYRS 186
QY 227 GWLLNLQHLTLGAQIGSGEFGAVLQGVAVKNIKCDVTAAQAFIDETAVMTKMOHE 286
Db 187 GWALNKKELKLTQIGKGFVMDYGRGNKVAVKCNKNDATAQAFLAASVMTQLRHS 246
QY 287 NLVRLGLVILHQ--GLYIVMEHVSCKNLVNFRTLRGRALVNTAQLQFLSLHVAEGMEYLE 344
Db 247 NLVQLLGVIVEKGGIYIVTEYMAKSLVDYLSRGRSVLGGDCLLKFSLDVCEAMEYLE 306
QY 345 SKKLVRDLAARNILVSDLVAKVSDFLGAERKGLDSSRLPVGKWTAPALKHGKFTSK 404
Db 307 GNNFVHRDLAARNVLVSDNVAKVSDFLGTKEASTQDTGKLPVKWTAPALREKKFTSK 366
QY 405 SDVWSFGVLLWEVFSYGRAPYKMSLKEYSEAVEKGYRMEPEGPCPGVHVLMSSCWEAE 464
Db 367 SDVWSFGILLWEIYSGRVPYPRIPKDVVPRVEKGYKMDADPGCPPAVIEVWKNCWILD 426
QY 465 PARPPFRKLAEKL 478
Db 427 AAMRPSFLQREQL 440

```


RESULT 15

US-08-701-191A-35
; Sequence 35, Application US/08701191A
; Patent No. 5942428
; GENERAL INFORMATION:
; APPLICANT: Moosa Mohammadi, Joseph Schlessinger,
; APPLICANT: and Stevan R. Hubbard
; TITLE OF INVENTION: CRYSTALS OF THE TYROSINE KINASE DOMAIN
; TITLE OF INVENTION: OF NON-INSULIN RECEPTOR TYROSINE KINASE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/701,191A
; FILING DATE: August 21, 1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 227/088
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 269 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-701-191A-35

Query Match 29.8%; Score 797; DB 2; Length 269;
Best Local Similarity 58.7%; Pred. No. 4.9e-60;
Matches 152; Conservative 46; Mismatches 59; Indels 2; Gaps 1;

QY 222 ELARAGWLLMLQHTLGAQIGBGFAGVLOGEYLGQKVAVKNTKCDVTAQAFIDETA VMT 281
Db 1 EFYRSGWALNMKELKLTIGTGKGFQDVLGDRGNKVAVKICNDATAQAFLAEASVMT 60

QY 282 KAOHENLVRLLGVILHQ--GLYIVMEHVSKNLVNFLETRGRAVNTAQLQPSLHVAEG 339
Db 61 QLRHSNLVQLGLVIVEKGLGIYIVTETNAGKSLVDYLRSGRSLVGGDCLLKFSLDVCEA 120

QY 340 MEYLESKGLVHRDIAARNILVSDLVAKVSDFGGLAKAERKGLDSSRLPVKWTAPALKHG 399
Db 121 MEYLEGNVFRDJAARNVLVSDNVAKVSDFGGLTKASSTQDTGKLFVKTAPALREK 180

QY 400 KFTSKSDVWGFVLLWVFYGRAPYPMGLKEVSEAVEKGYRMEPPGCGPVPVHLMSS 459
Db 161 KFTSKSDVWGFVLLWVFYGRAPYPMGLKEVSEAVEKGYRMEPPGCGPVPVHLMSS 459

QY 460 CWEAEGRRPPPRKLAEL 478
Db 241 CWHLDAMRPSFLQLRQQL 259

Search completed: May 19, 2004, 19:10:15
Job time : 25 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 21, 2004, 04:35:39 ; Search time 153 Seconds
(without alignments)
7254.260 Million cell updates/sec

Title: US-09-977-260-1
Perfect score: 2000
Sequence: 1 ctcgctccaaagtgtgcagc.....attctaaggactctaaaaa 2000

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/prodata/2/ina/5A COMB.seq: *
2: /cgn2_6/prodata/2/ina/5B COMB.seq: *
3: /cgn2_6/prodata/2/ina/5A COMB.seq: *
4: /cgn2_6/prodata/2/ina/5B COMB.seq: *
5: /cgn2_6/prodata/2/ina/PTUS COMB.seq: *
6: /cgn2_6/prodata/2/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	2000	100.0	2000	4	US-08-426-509A-1
2	2000	100.0	2000	4	US-08-232-545-1
3	2000	100.0	2000	5	PCT-US95-05008-1
4	1909.8	95.5	1987	2	US-08-876-882-1
5	1909.8	95.5	1987	4	US-09-315-928-1
6	1909.8	95.5	1987	4	US-09-023-655-1409
7	1909.4	95.2	1942	2	US-08-604-989A-11
8	1519.4	76.0	1521	2	US-08-604-989A-10
9	1398	69.9	1398	2	US-08-604-989A-9
10	1377	68.8	1713	4	US-09-741-154-1
11	738	36.9	738	2	US-08-604-989A-8
12	547.6	27.4	2187	4	US-09-023-655-1267
13	547.6	27.4	2187	4	US-09-470-881-4
14	455	22.8	16389	4	US-09-741-154-3
15	225	11.2	225	2	US-08-604-989A-7
16	212.4	10.6	1611	1	US-07-820-011A-3
17	212.4	10.6	1611	4	US-09-860-473-3
18	212.4	10.6	1611	5	PCT-US93-00445-3
19	199.2	10.0	1602	1	US-07-820-011A-1
20	199.2	10.0	1602	5	PCT-US93-00445-1
21	197.6	9.9	1759	4	US-09-470-881-2
22	193.4	9.7	1626	4	US-09-860-473-10
23	192.6	9.6	2015	4	US-09-023-655-1105
24	192	9.6	192	2	US-08-604-989A-6
25	185	9.2	1574	3	US-09-173-581-12
26	185	9.2	1574	3	US-09-420-915-12
27	184.6	9.2	2354	4	US-09-023-655-1080

28	131.8	9.1	3623	1	US-08-306-691B-35	Sequence 35, Appl
29	170.4	8.5	1467	4	US-09-579-182-2	Sequence 2, Appl
30	158.8	8.4	1548	4	US-09-099-053-1	Sequence 1, Appl
31	155.8	8.3	2674	4	US-09-817-180-1	Sequence 1, Appl
32	155.8	8.3	2674	4	US-10-003-295-1	Sequence 1, Appl
33	162	8.1	5993	3	US-09-383-630-1	Sequence 1, Appl
34	162	8.1	5993	3	US-09-383-630-2	Sequence 2, Appl
35	155.6	7.8	2298	4	US-09-023-655-1158	Sequence 1158, Ap
36	151.2	7.6	2647	4	US-09-220-132-77	Sequence 77, Appl
37	151.2	7.6	2647	5	PCT-US93-06251-77	Sequence 77, Appl
38	148.8	7.4	2049	4	US-09-099-749-10	Sequence 10, Appl
39	148.8	7.4	2433	4	US-09-520-3125-830	Sequence 830, App
40	148.8	7.4	2598	4	US-09-417-197-110	Sequence 110, App
41	148.8	7.4	2616	4	US-09-417-197-108	Sequence 1313, Ap
42	148	7.4	2435	4	US-09-023-655-1313	Sequence 1, Appl
43	148	7.3	2469	1	US-08-459-296-1	Sequence 4, Appl
44	146.4	7.3	933	2	US-08-701-191A-4	Sequence 4, Appl
45	146.4	7.3	933	4	US-09-664-526-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-08-426-509A-1
; Sequence 1, Application US/08426509A
; Patent No. 6326469
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; APPLICANT: Gishizky, Mikhail
; APPLICANT: Sures, Irman G.
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
; TITLE OF INVENTION: TYROSINE KINASES
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York,
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/426,509A
; FILING DATE: 21-APR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/232,545
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7683-0074-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2000 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
US-08-426-509A-1

Query Match 100.0%; Score 2000; DB 4; Length 2000;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2000; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCTCCAAAGTTGTGAGACCGCGGACCGCTCGGGGTGTGACCGCGCTCGCGAGGCC 60
DB 1 CTGCTCCAAAGTTGTGAGACCGCGGACCGCTCGGGGTGTGACCGCGCTCGCGAGGCC 60
QY 61 TCCGTGGGGCGGGCGGGCGGCTCGGGGCGCCCTGAGCAGAAACAGAAAC 120
DB 61 TCCGTGGGGCGGGCGGGCGGCTCGGGGCGCCCTGAGCAGAAACAGAAAC 120
QY 121 AGCTCGGTCCAGTGGCAACCACTCCCTACCTCTGTGCGACCGCCCTGGCCCTGGCA 180
DB 121 AGCTCGGTCCAGTGGCAACCACTCCCTACCTCTGTGCGACCGCCCTGGCCCTGGCA 180
QY 181 GGCATTCCTCAGCGTCCCGACCTGACACCTGCTCAGTGTGCTCTCAGTGTGCTCAG 240
DB 181 GGCATTCCTCAGCGTCCCGACCTGACACCTGCTCAGTGTGCTCTCAGTGTGCTCAG 240
QY 241 TTTTCCCTCGGGGGGATGGCGGGCGAGGCTCTCTGTGTTTCTGGCGGGGATTTTCA 300
DB 241 TTTTCCCTCGGGGGGATGGCGGGCGAGGCTCTCTGTGTTTCTGGCGGGGATTTTCA 300
QY 301 GCTGTGATTCGTGAGGAACCTTCCCGGGTGAGGCCCGCTTCTCCGAGCTGGCAC 360
DB 301 GCTGTGATTCGTGAGGAACCTTCCCGGGTGAGGCCCGCTTCTCCGAGCTGGCAC 360
QY 361 CCCCTCCCTCTCAGCAGGATGCGACAGAGGCGTGGCGCCCGGBCACCCAGTGTATCA 420
DB 361 CCCCTCCCTCTCAGCAGGATGCGACAGAGGCGTGGCGCCCGGBCACCCAGTGTATCA 420
QY 421 CCAATTCGAGGACACCCCGCCCAAGCCAGGGGAGCTGGCCCTTCCGCAAGGCGAGCTGG 480
DB 421 CCAATTCGAGGACACCCCGCCCAAGCCAGGGGAGCTGGCCCTTCCGCAAGGCGAGCTGG 480
QY 481 TCACATCTCTGAGGCTCGCGAACAAGAGTGTGACCGGTCAAGCAACACAGTGT 540
DB 481 TCACATCTCTGAGGCTCGCGAACAAGAGTGTGACCGGTCAAGCAACACAGTGT 540
QY 541 GACAGAGGGGCTGTGGCAGCTGGGCGCTGGGGAGCGGAGCGCTCTCCGAGAC 600
DB 541 GACAGAGGGGCTGTGGCAGCTGGGCGCTGGGGAGCGGAGCGCTCTCCGAGAC 600
QY 601 CCAAGCTCAGCTCAGTCCCGTGTCCACGGGAAGATCTCGGCGCCAGGAGGTGCCAG 660
DB 601 CCAAGCTCAGCTCAGTCCCGTGTCCACGGGAAGATCTCGGCGCCAGGAGGTGCCAG 660
QY 661 AGCTGAGCTCCGAGGATGGGCTTCTCTGTGCGGAGTCCGCGGCCACCCCGCG 720
DB 661 AGCTGAGCTCCGAGGATGGGCTTCTCTGTGCGGAGTCCGCGGCCACCCCGCG 720
QY 721 ACTAGCTCTGTCGAGCTTGGCGGAGCTGATCCACTACCGCTGCTGCACCGG 780
DB 721 ACTAGCTCTGTCGAGCTTGGCGGAGCTGATCCACTACCGCTGCTGCACCGG 780
QY 781 ACGGCCACTCACAATCGATGAGGCGGTCTTCTGCAACCTCATGACATGTTGGAGC 840
DB 781 ACGGCCACTCACAATCGATGAGGCGGTCTTCTGCAACCTCATGACATGTTGGAGC 840
QY 841 ATTACAGCAGACAGGCGCTATCTGCAACAGCTGTGTGAGCAAAAGCGGAACACG 900
DB 841 ATTACAGCAGACAGGCGCTATCTGCAACAGCTGTGTGAGCAAAAGCGGAACACG 900
QY 901 GGACCAAGTCGCGCGAGGAGCTGGCCAGGCGGCTGTGTTACTGACCTGCGACATT 960
DB 901 GGACCAAGTCGCGCGAGGAGCTGGCCAGGCGGCTGTGTTACTGACCTGCGACATT 960
QY 961 TCACATTTGGGACACAGATCGGAGAGGGAGTGTGGAGCTGCTCTGACGGTGTGATCC 1020
DB 961 TCACATTTGGGACACAGATCGGAGAGGGAGTGTGGAGCTGCTCTGACGGTGTGATCC 1020
QY 1021 TGGGGCAAAAGTGGCGGTGAAGATATCAAGTGTGATGACGCCAGGCGCTTCTCTGG 1080
DB 1021 TGGGGCAAAAGTGGCGGTGAAGATATCAAGTGTGATGACGCCAGGCGCTTCTCTGG 1080
QY 1081 ACGAGACGCGCTCATGACAGAGATGCAACACGAACTGTGTGCTCTCTGGCGGTGA 1140

RESULT 2
US-08-232-545-1
; Sequence 1, Application US/08232545
; Patent No. 6506578
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Gishizky, Mikhail
; APPLICANT: Sures, Irman G.
; TITLE OF INVENTION: No. 6506578el Megakaryocytic Protein Tyrosine

DB 1081 ACGAGACGCGCTCATGACGAAGATGCAACACGAGAACTGTGTGCTCTCTCGGGGTGA 1140
QY 1141 TCTGTGACCAAGGGGTGTATCATGTGATGAGCAAGGCAACCTGGTGAAC 1200
DB 1141 TCTGTGACCAAGGGGTGTATCATGTGATGAGCAAGGCAACCTGGTGAAC 1200
QY 1201 TTTTGGGACCGGGGTGAGCCCTGTGAAACACCGCTCAGCTCTGCAAGTGTCTCTG 1260
DB 1201 TTTTGGGACCGGGGTGAGCCCTGTGAAACACCGCTCAGCTCTGCAAGTGTCTCTG 1260
QY 1261 ACCTGCGCAGGCGATGGAGTACCTGGAGACAAGAGTGTGTGCAACCGCACTGGCC 1320
DB 1261 ACCTGCGCAGGCGATGGAGTACCTGGAGACAAGAGTGTGTGCAACCGCACTGGCC 1320
QY 1321 CCGCAACATCTGTCTCAGAGGACCTGGTGGCAAGGTGACGACCTTTGGCTTGGCCA 1380
DB 1321 CCGCAACATCTGTCTCAGAGGACCTGGTGGCAAGGTGACGACCTTTGGCTTGGCCA 1380
QY 1381 AAGCCGAGCGGAAGGGCTAGACTCAAGCGGCTGCCGTCAAGTGGACGCGCGCGAGG 1440
DB 1381 AAGCCGAGCGGAAGGGCTAGACTCAAGCGGCTGCCGTCAAGTGGACGCGCGCGAGG 1440
QY 1441 CTCTCAAAACAAGGAGTTCACCAAGTGTGTGAGTGTGTGGAGTGTGGGTGTCTCT 1500
DB 1441 CTCTCAAAACAAGGAGTTCACCAAGTGTGTGAGTGTGTGGAGTGTGGGTGTCTCT 1500
QY 1501 GGGAGTCTCTCATATGACGGGCTGACCTCAAGTGTGTGAGTGTGTGGGTGTCTCT 1560
DB 1501 GGGAGTCTCTCATATGACGGGCTGACCTCAAGTGTGTGAGTGTGTGGGTGTCTCT 1560
QY 1561 AGCCGCTGAGAGAGGGGTACCGCAATGGAACCCCGGAGGGCTGTCCAGGCCCGCTGAC 1620
DB 1561 AGCCGCTGAGAGAGGGGTACCGCAATGGAACCCCGGAGGGCTGTCCAGGCCCGCTGAC 1620
QY 1621 TCCTCATGAGACGTCTGTGGAGGAGAGCCCGCCCGCGGCCACCTTCCGCAAACTGG 1680
DB 1621 TCCTCATGAGACGTCTGTGGAGGAGAGCCCGCCCGCGGCCACCTTCCGCAAACTGG 1680
QY 1681 CCGAAGCTGCGCGGAGGTACCGCAATGGAACCCCGGAGGGCTGTCCAGGCCCGCTGAC 1740
DB 1681 CCGAAGCTGCGCGGAGGTACCGCAATGGAACCCCGGAGGGCTGTCCAGGCCCGCTGAC 1740
QY 1741 ACGCGACGGTCCACCTCGGCCCGAAGCCAGGAGCTGACCCACCGCGTGGGCGCT 1800
DB 1741 ACGCGACGGTCCACCTCGGCCCGAAGCCAGGAGCTGACCCACCGCGTGGGCGCT 1800
QY 1801 TGGCCCAAGAGACCGAGAGTGGAGGTGGGCGTGGGCGCACTGACAGGCCCAAGG 1860
DB 1801 TGGCCCAAGAGACCGAGAGTGGAGGTGGGCGTGGGCGCACTGACAGGCCCAAGG 1860
QY 1861 AGGGTCCAGGCGGCAAGTTCATCTCTGTTGGTGGCCACAGAGGGGCTGGCCACGTAGG 1920
DB 1861 AGGGTCCAGGCGGCAAGTTCATCTCTGTTGGTGGCCACAGAGGGGCTGGCCACGTAGG 1920
QY 1921 GCTCTGGGCGCGCTGGACACCCGACCTGGAGAGTATGATGCGCCGCGGCAAGAGCG 1980
DB 1921 GCTCTGGGCGCGCTGGACACCCGACCTGGAGAGTATGATGCGCCGCGGCAAGAGCG 1980
QY 1981 ATTCTAAGACTTAAATAA 2000
DB 1981 ATTCTAAGACTTAAATAA 2000

;/ TITLE OF INVENTION: Kinases
;/ NUMBER OF SEQUENCES: 21
;/ CORRESPONDENCE ADDRESS:
;/ ADDRESSEE: Pennie & Edmonds
;/ STREET: 1155 Avenue of the Americas
;/ CITY: New York
;/ STATE: New York
;/ COUNTRY: U.S.A.
;/ ZIP: 10036
;/ COMPUTER READABLE FORM:
;/ MEDIUM TYPE: Floppy disk
;/ COMPUTER: IBM PC compatible
;/ OPERATING SYSTEM: PC-DOS/MS-DOS
;/ SOFTWARE: PatentIn Release #1.0, Version #1.25
;/ CURRENT APPLICATION DATA:
;/ APPLICATION NUMBER: US/08/232,545
;/ FILING DATE: 22-APR-1994
;/ CLASSIFICATION: 435
;/ ATTORNEY/AGENT INFORMATION:
;/ NAME: Coruzzi, Laura A.
;/ REGISTRATION NUMBER: 30,742
;/ REFERENCE/DOCKET NUMBER: 7683-050
;/ TELECOMMUNICATION INFORMATION:
;/ TELEPHONE: (212)790-9090
;/ TELEFAX: (212)869-9741
;/ TELEX: 66141 PENNIE
;/ INFORMATION FOR SEQ. ID. NO. 1:
;/ SEQUENCE CHARACTERISTICS:
;/ LENGTH: 2000 base pairs
;/ TYPE: nucleic acid
;/ STRANDEDNESS: unknown
;/ TOPOLOGY: unknown
;/ MOLECULE TYPE: DNA
;/ US-08-232-545-1

Query Match 100.0%; Score 2000; DB 4; Length 2000;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2000; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGCTCCAAAGTTGTGAGCGCGGACCGCCTCGGGGTGTGACCGCGCTCGCGGAGGCC 60
DB 1 CTGCTCCAAAGTTGTGAGCGCGGACCGCCTCGGGGTGTGACCGCGCTCGCGGAGGCC 60

QY 61 TCTTGGGGCGGGCGGGCGGCTCGGGCGCGCCCTGAGCAGAAACAGAGAAAC 120
DB 61 TCTTGGGGCGGGCGGGCGGCTCGGGCGCGCCCTGAGCAGAAACAGAGAAAC 120

QY 121 AGGCTCGGTCCAGTGGCAACCCAGCTCCCTACCTCTGTGCGACCGCGCTGCGCTGGCA 180
DB 121 AGGCTCGGTCCAGTGGCAACCCAGCTCCCTACCTCTGTGCGACCGCGCTGCGCTGGCA 180

QY 181 GGCATTCGACGCTCCCGACGTGACCACTTGCTGACGTGCGCTCTCACTGCGCTCAG 240
DB 181 GGCATTCGACGCTCCCGACGTGACCACTTGCTGACGTGCGCTCTCACTGCGCTCAG 240

QY 241 TTTCCTCTGCGGGCGGATGCGGGCGGAGCTCTCTGTTTCTGCGGGGCAATTCAG 300
DB 241 TTTCCTCTGCGGGCGGATGCGGGCGGAGCTCTCTGTTTCTGCGGGGCAATTCAG 300

QY 301 GCTGTGATCTGCTGAGGAATTCCTCCCGGTGAGCCCGCGCTTCCTCCGAGCTGGCACC 360
DB 301 GCTGTGATCTGCTGAGGAATTCCTCCCGGTGAGCCCGCGCTTCCTCCGAGCTGGCACC 360

QY 361 CCCTCCGCTCTCAGCGAGATGCCAACAGGGCGCTGGGCGCGCGACCCAGTGATCA 420
DB 361 CCCTCCGCTCTCAGCGAGATGCCAACAGGGCGCTGGGCGCGCGACCCAGTGATCA 420

QY 421 CCAAAATGCGAGCACCCCGCCCAAGCCAGGGAGCTGCGCTTCGCGAGGGGCACTGG 480
DB 421 CCAAAATGCGAGCACCCCGCCCAAGCCAGGGAGCTGCGCTTCGCGAGGGGCACTGG 480

QY 481 TCACCATCTTGGAGGCTGCGAGAAACAGAGCTGTTACCGCTCAAGCAACCAACAGTG 540
DB 481 TCACCATCTTGGAGGCTGCGAGAAACAGAGCTGTTACCGCTCAAGCAACCAACAGTG 540

1481 TCACCATCTTGGAGGCTGCGAGAAACAGAGCTGTTACCGCTCAAGCAACCAACAGTG 540
QY 541 GACAGAGGGGCTGCTGGAGCTGGGCGCTGCGGGAGCGGGAGCCCTCTCCGAGACC 600
DB 541 GACAGAGGGGCTGCTGGAGCTGGGCGCTGCGGGAGCGGGAGCCCTCTCCGAGACC 600
QY 501 CCAAGCTCAGCCTCANTGCGCTGTTCCACGGGAGATCTCGGGCCAGGAGGCTGTCCAGC 660
DB 501 CCAAGCTCAGCCTCANTGCGCTGTTCCACGGGAGATCTCGGGCCAGGAGGCTGTCCAGC 660
QY 561 AGCTGACGCTCCCGAGGATGGGCTGTTCTGCTGCGGAGTCCGCGCCACCCCGCG 720
DB 561 AGCTGACGCTCCCGAGGATGGGCTGTTCTGCTGCGGAGTCCGCGCCACCCCGCG 720
QY 721 ACTACGTCCTGTGCTGAGCTTTGGCGCGACGTCATCCACTACCGGCTGTCCAGCG 780
DB 721 ACTACGTCCTGTGCTGAGCTTTGGCGCGACGTCATCCACTACCGGCTGTCCAGCG 780
QY 781 ACGGCCACCTCACAATCGATGAGCGCTGTTCTGCAACCTCATGAGCATGTTGAGC 840
DB 781 ACGGCCACCTCACAATCGATGAGCGCTGTTCTGCAACCTCATGAGCATGTTGAGC 840
QY 841 ATTACAGCAAGGACAAAGGCGCTATCTGCACCAAGCTGGTGAGACCAAAAGCGAAAC 900
DB 841 ATTACAGCAAGGACAAAGGCGCTATCTGCACCAAGCTGGTGAGACCAAAAGCGAAAC 900
QY 901 GGACCAAGTGGCGCGGAGGAGCTGGCCAGGCGGGCTGTTACTGAACCTGCAGCAT 960
DB 901 GGACCAAGTGGCGCGGAGGAGCTGGCCAGGCGGGCTGTTACTGAACCTGCAGCAT 960
QY 961 TGCATTGGGAGCACAGATCGGAGGAGAGTTGGAGCTGTCCTGACGGTGAATACC 1020
DB 961 TGCATTGGGAGCACAGATCGGAGGAGAGTTGGAGCTGTCCTGACGGTGAATACC 1020
QY 1021 TGGGCAAAAGGTGGCGCTGAAAGATATCAAGTGTGATGTGACAGCCAGGCGCTTCTGG 1080
DB 1021 TGGGCAAAAGGTGGCGCTGAAAGATATCAAGTGTGATGTGACAGCCAGGCGCTTCTGG 1080
QY 1081 ACGAGCGCGCTCATGACGAAGATGCAACACAGAGAACTGGTGCCTCTCTGGGGTGA 1140
DB 1081 ACGAGCGCGCTCATGACGAAGATGCAACACAGAGAACTGGTGCCTCTCTGGGGTGA 1140
QY 1141 TCTGCAACAGAGGCTGTACATTTGTCATGAGCACGTGAGCAAGGCAACCTGTAAC 1200
DB 1141 TCTGCAACAGAGGCTGTACATTTGTCATGAGCACGTGAGCAAGGCAACCTGTAAC 1200
QY 1201 TTTCTGGGACCGGGGTGAGCGCTCGTGAACACACCGCTCAGCTCTGAGTTTCTCTGC 1260
DB 1201 TTTCTGGGACCGGGGTGAGCGCTCGTGAACACACCGCTCAGCTCTGAGTTTCTCTGC 1260
QY 1261 AGTGGCCGAGGCAATGGAGTACCTGGAGAGCAAGAGCTTGTGACCGGACCTGGCG 1320
DB 1261 AGTGGCCGAGGCAATGGAGTACCTGGAGAGCAAGAGCTTGTGACCGGACCTGGCG 1320
QY 1321 CCGCAACATCTCTGCTCAGAGGACCTGGTGCCNAGTCTGAGACTTTGGCTGGCCA 1380
DB 1321 CCGCAACATCTCTGCTCAGAGGACCTGGTGCCNAGTCTGAGACTTTGGCTGGCCA 1380
QY 1381 AAGCCGAGCGGAAGGGCTAGACTCAAGCGGCTGCCCTCAAGTGAAGCGGCGCGAGG 1440
DB 1381 AAGCCGAGCGGAAGGGCTAGACTCAAGCGGCTGCCCTCAAGTGAAGCGGCGCGAGG 1440
QY 1441 CTCTCAACACCGGAGTTTCAACAGCAAGTGGATGTTGGAGTTTGGGGTGTCTCT 1500
DB 1441 CTCTCAACACCGGAGTTTCAACAGCAAGTGGATGTTGGAGTTTGGGGTGTCTCT 1500
QY 1501 GGGAGTCTTCTCATATGGAAGGGCTCCGTACCCATAAATGTCATGAAGAGGTGCG 1560
DB 1501 GGGAGTCTTCTCATATGGAAGGGCTCCGTACCCATAAATGTCATGAAGAGGTGCG 1560
QY 1561 AGGCGGTGAGAGAGGGTACCGCATGGACCCCGGAGGCTGTCCAGCGCCCGTGCAG 1620
DB 1561 AGGCGGTGAGAGAGGGTACCGCATGGACCCCGGAGGCTGTCCAGCGCCCGTGCAG 1620

QY 901 GGACCAAGTCGGCCGACGAGAGCTGGCCAGGGCGGCTGGTTACTGAACTGCAGCATT 960
Db 901 GGACCAAGTCGGCCGACGAGAGCTGGCCAGGGCGGCTGGTTACTGAACTGCAGCATT 960
QY 961 TGCAATTGGAGACACATCGGACAGGAGAGTTTGGAGCTGTCTCTGACGGGTGAGTACC 1020
Db 961 TGCAATTGGAGACACATCGGACAGGAGAGTTTGGAGCTGTCTCTGACGGGTGAGTACC 1020
QY 1021 TGGGGCAAAAGGTGGCGCTGAAGATATCAAGTGTGATGACAGCCAGGCCTTCTCTGG 1080
Db 1021 TGGGGCAAAAGGTGGCGCTGAAGATATCAAGTGTGATGACAGCCAGGCCTTCTCTGG 1080
QY 1081 ACAGACGGCGCTCATGACCAAGATGCAACACAGAGAACCTTGTCTCTCTGGCGCTGA 1140
Db 1081 ACAGACGGCGCTCATGAGAGATGCAACACAGAGAACCTTGTCTCTCTGGCGCTGA 1140
QY 1141 TCTGTCCACAGGGGCTGATCATTTCTATGAGACAGCTGAGCAAGGGCAACCTTGTGAAC 1200
Db 1141 TCTGTCCACAGGGGCTGATCATTTCTATGAGACAGCTGAGCAAGGGCAACCTTGTGAAC 1200
QY 1201 TTCTGGGACCCGGGTGAGCCCTCTGTAACACCGCTCAGCTCTGAGTTTCTCTGTC 1260
Db 1201 TTCTGGGACCCGGGTGAGCCCTCTGTAACACCGCTCAGCTCTGAGTTTCTCTGTC 1260
QY 1261 ACCTGSCCGAGGGCATCGAGTACCTGAGAGCAAGAGCTTGTGCACCGGACCTGGCCG 1320
Db 1261 ACCTGSCCGAGGGCATCGAGTACCTGAGAGCAAGAGCTTGTGCACCGGACCTGGCCG 1320
QY 1321 CCGCAATCTCTGCTCTAGAGGACCTGTGTGCGCAAGGTGAGCACTTTGGCTGGCCA 1380
Db 1321 CCGCAATCTCTGCTCTAGAGGACCTGTGTGCGCAAGGTGAGCACTTTGGCTGGCCA 1380
QY 1381 AAGCCGAGCGAGGGGCTAGACTCAGCCGGCTGCGCCGTCAAGTGAACCGGCCGAGG 1440
Db 1381 AAGCCGAGCGAGGGGCTAGACTCAGCCGGCTGCGCCGTCAAGTGAACCGGCCGAGG 1440
QY 1441 CTCTCAAACACGGGAAGTTTCAACAGCAAGTCGGATGCTGGAGTTTGGGTGCTGCTCT 1500
Db 1441 CTCTCAAACACGGGAAGTTTCAACAGCAAGTCGGATGCTGGAGTTTGGGTGCTGCTCT 1500
QY 1501 GGGAGGTCTTCTCATATGAGCGGCTCCGTACCCCTAAATGTCTACTGAAAGAGGTGTCGG 1560
Db 1501 GGGAGGTCTTCTCATATGAGCGGCTCCGTACCCCTAAATGTCTACTGAAAGAGGTGTCGG 1560
QY 1561 AGCCGTGAGAGAGGGGTACCGNTGAAACCCCGGAGGGCTGTCCAGGCCCGGTGCAAG 1620
Db 1561 AGCCGTGAGAGAGGGGTACCGNTGAAACCCCGGAGGGCTGTCCAGGCCCGGTGCAAG 1620
QY 1621 TCCTCATGACAGCTGTGGGAGGACAGCCCGCCCGCCGACCCCTTCCGCAAACTGG 1680
Db 1621 TCCTCATGACAGCTGTGGGAGGACAGCCCGCCCGCCGACCCCTTCCGCAAACTGG 1680
QY 1681 CCGAGAGCTTGGCCCGGAGCTACGAGTGCAGGTGCGCCAGCTCTCTCAGGGCAGG 1740
Db 1681 CCGAGAGCTTGGCCCGGAGCTACGAGTGCAGGTGCGCCAGCTCTCTCAGGGCAGG 1740
QY 1741 ACGCCGACGGGTCACTTGGCCCGGACAGCGAGGAGCCCTGACCCCAACCCGCTGGGGCCCT 1800
Db 1741 ACGCCGACGGGTCACTTGGCCCGGACAGCGAGGAGCCCTGACCCCAACCCGCTGGGGCCCT 1800
QY 1801 TGGCCCCAGAGGACCGAGAGGTGGAGTGCAGCTGGGGGACACTGACAGGCCGAGG 1860
Db 1801 TGGCCCCAGAGGACCGAGAGGTGGAGTGCAGCTGGGGGACACTGACAGGCCGAGG 1860
QY 1861 AGGTCCAGGGCGGCAAGTCACTCTCTGTTGCCACAGAGGGGCTGGCCACCTAGGG 1920
Db 1861 AGGTCCAGGGCGGCAAGTCACTCTCTGTTGCCACAGAGGGGCTGGCCACCTAGGG 1920
QY 1921 GGCTCTGGGGCGGCGGTGGACACCCCAAGACTGCGAAGAGATGATCGCCCGATAAAGACGG 1980
Db 1921 GGCTCTGGGGCGGCGGTGGACACCCCAAGACTGCGAAGAGATGATCGCCCGATAAAGACGG 1980
QY 1981 ATTCTAGGACTCTAAAAA 2000

Db 1981 ATTCTAGGACTCTAAAAA 2000
RESULT 4
US-08-876-882-1
; Sequence 1, Application US/08876882
; Patent No. 5981201
; GENERAL INFORMATION:
; APPLICANT: Avraham, Hava
; APPLICANT: Groopman, Jerome E.
; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT
; TITLE OF INVENTION: OF BREAST CANCER
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brock, Smith & Reynolds P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows
; SOFTWARE: FastSeq For Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/876,882
; FILING DATE: 16-JUN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/035,228
; FILING DATE: 08-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen, Hogle M
; REGISTRATION NUMBER: 36,361
; REFERENCE/DOCKET NUMBER: NEDH97-01pa
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1987 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-876-882-1

Query Match 95.5%; Score 1909.8; DB 2; Length 1987;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1973; Conservative 0; Mismatches 7; Indels 9; Gaps 5;
QY 1 CTGCGTCCCAAGTGTGCAGCGGAGCGCCCTCGGGGTGTGCAGCCGCTCGCGAGGCC 60
Db 8 CTGCGTCCCAAGTGTGCAGCGGAGCGCCCTCGGGGTGTGCAGCCGCTCGCGAGGCC 67
QY 61 TCCTGG 120
Db 68 TCCTGG 127
QY 121 AGGCTGGTCCAGTGGCAACCCAGCTCCCTACCTCTCTGTGTCAGCCGCTGGCTGGCA 180
Db 128 AGGCTGGTCCAGTGGCAACCCAGCTCCCTACCTCTCTGTGTCAGCCGCTGGCTGGCA 187
QY 181 GGCCATGCCAGGTCCTCCGACCTGTGACCACTGCTCAGTGTGCTCTCAGCTCCCTCAG 240
Db 188 GGCCATGCCAGGTCCTCCGACCTGTGACCACTGCTCAGTGTGCTCTCAGCTCCCTCAG 247
QY 241 TTTTCCCTCTGGGGGGGGGATGGCGGGCGAGGCTCTCTGTGTTTCTGTGGGGGCA 300
Db 248 TTTTCC--TCGGGGGGGATGGCGGGGGAGGCTCTCTGTGTTTCTGTGGGGGCA 305

```
QY 301 GCTGTGATTCTGCTGAGGAATTTCCCGGTGAGCCCGGCTTCTCCGAGCGCTGGACC 360
DB 306 GCTGTGATTCTGCTGAGGAATTTCCCGGTGAGCCCGGCTTCTCCGAGCGCTGGACC 365
QY 361 CCCCTCCCGCTTCAGCGAGGATGCCAAGAGCGCTGGGCCCCGGGCAACCCAGTGTATCA 420
DB 366 CCCCTCCCGCTTCAGCGAGGATGCCAAGAGCGCTGGGCCCCGGGCAACCCAGTGTATCA 425
QY 421 CCAATATGAGAGACACCCCGCCCCAAGCCAGGGGAGCTGGCTTCCGAAAGGCGAGCTGG 480
DB 426 CCAATATGAGAGACACCCCGCCCCAAGCCAGGGGAGCTGGCTTCCGAAAGGCGAGCTGG 485
QY 481 TCACCATCTGAGAGCTTCGAGAGCAAGAGCTGTACCGGCTCAAGCAACCAACCAATG 540
DB 486 TCACCATCTGAGAGCTTCGAGAGCAAGAGCTGTACCGGCTCAAGCAACCAACCAATG 545
QY 541 GACAGAGGGGCTGTGGCAGCTGGGGGCTTCGGGAGCGGAGGCGCTCTCCGAGACC 600
DB 546 GACAGAGGGGCTGTGGCAGCTGGGGGCTTCGGGAGCGGAGGCGCTCTCCGAGACC 605
QY 601 CCAAGCTCAGCTCATGCGCTGGTTCACGAGGAAGATCTCGGECAGGAGGCTGTCCAGC 660
DB 606 CCAAGCTCAGCTCATGCGCTGGTTCACGAGGAAGATCTCGGECAGGAGGCTGTCCAGC 665
QY 661 AGCTCAGCTCCCGAGAGTGGGCTTCTCGTGGGAGTCCGCGGCCACCCCGGCG 720
DB 666 AGCTCAGCTCCCGAGAGTGGGCTTCTCGTGGGAGTCCGCGGCCACCCCGGCG 725
QY 721 ACTACGCTCCTGTGCTGAGCTTTGCGCGGAGCTCATCCACTACCGCTGTGTCACCGCG 780
DB 726 ACTACGCTCCTGTGCTGAGCTTTGCGCGGAGCTCATCCACTACCGCTGTGTCACCGCG 785
QY 781 ACGGCCACTCACAATCGATGAGGCGGTGTTCTTGCAACCTCATGACATGTGTGAGC 840
DB 786 ACGGCCACTCACAATCGATGAGGCGGTGTTCTTGCAACCTCATGACATGTGTGAGC 845
QY 841 ATTACAGAGACAAAGGCGCTATCTGCACCAAGCTGTGAGACCAAGCGGAACACG 900
DB 846 ATTACAGAGACAAAGGCGCTATCTGCACCAAGCTGTGAGACCAAGCGGAACACG 905
QY 901 GGACCAAGTCGCGCCGAGGAGAGCTGGCCAGGCGGCTGTTACTGAACTTCGACGATT 960
DB 906 GGACCAAGTCGCGCCGAGGAGAGCTGGCCAGGCGGCTGTTACTGAACTTCGACGATT 965
QY 961 TGACATTTGGGACACAGATCGAGAGGAGATTTGGAGCTGCTCTGAGGTTGAGTACC 1020
DB 966 TGACATTTGGGACACAGATCGAGAGGAGATTTGGAGCTGCTCTGAGGTTGAGTACC 1025
QY 1021 TGGGCAAAAGTGCGCGTGAACAATATCAAGTGTGATGTGACAGCCGAGGCTTCTTGG 1080
DB 1026 TGGGCAAAAGTGCGCGTGAACAATATCAAGTGTGATGTGACAGCCGAGGCTTCTTGG 1085
QY 1081 ACGAGCGCGCTCATGAGAGATGCAACAGAACTGGTGGTCTCTCGGCGGTGA 1140
DB 1086 ACGAGCGCGCTCATGAGAGATGCAACAGAACTGGTGGTCTCTCGGCGGTGA 1145
QY 1141 TCCTGCACAGGGGCTTACATTTCTATGAGACAGTGGACAGGCGACCTGTGTGAAT 1200
DB 1146 TCCTGCACAGGGGCTTACATTTCTATGAGACAGTGGACAGGCGACCTGTGTGAAT 1205
QY 1201 TTCTCGGACCGGGCTGAGCGCTCGTGAACACCGCTCAGCTCCTGCAAGTTTCTCTGC 1260
DB 1206 TTCTCGGACCGGGCTGAGCGCTCGTGAACACCGCTCAGCTCCTGCAAGTTTCTCTGC 1265
QY 1261 ACGTGGCCGAGGCAATGAGTACTCTGGAGACAAGAGTTGTGACCGCGACCTGGCGG 1320
DB 1266 ACGTGGCCGAGGCAATGAGTACTCTGGAGACAAGAGTTGTGACCGCGACCTGGCGG 1325
QY 1321 CCGGCAACATCTGTGTCTCAGAGGACCTTGTGGCGAGGTGAGGACCTTGTGCGTGA 1380
DB 1326 CCGGCAACATCTGTGTCTCAGAGGACCTTGTGGCGAGGTGAGGACCTTGTGCGTGA 1385
QY 1381 AAGCCGAGCGGAAGGGGCTGAGACTCAAGCCGCTGCTCCGCTCAAGTGGAGCGCGCGAGG 1440
```

```
DB 1386 AAGCCGAGCGGAAGGGGCTAGACTCAAGCCGCTGCCGCTCAAGTGGAGCGCGCCGAGG 1445
QY 1441 CTCTCAACACAGGAAGTTTACCAGCAAGTCCGATGTCTCGAGTTTGGGTTGTGCTCT 1500
DB 1446 CTCTCAACACAGG--GTTCCACAGCAAGTCCGATGTCTCGAGTTTGGGTTGTGCTCT 1502
QY 1501 GGGAGGTCTTCTCATATGAGCGGCTCGTACCCCTAAAATCTCACTGAAGAGGTGTGCG 1560
DB 1503 GGGAGGTCTTCTCATATGAGCGGCTCGTACCCCTAAAATCTCACTGAAGAGGTGTGCG 1562
QY 1561 AGGCGGTGGAGAAAGGGGTACCCGATGGAACCCCGAGGGCTGTCCAGGCCCCGTCACG 1620
DB 1563 AGGCGGTGGAGAAAGGGGTACCCGATGGAACCCCGAGGGCTGTCCAGGCCCCGTCACG 1622
QY 1621 TCCTCATGAGCAGTGTCTGGAGGAGAGCCCGCCCGCCGCTTCCGCAAACTGG 1680
DB 1623 TCCTCATGAGCAGTGTCTGGAGGAGAG--CCGCCCGCGGCCACCCCTTCCGCAAACTGG 1682
QY 1681 CCGAGAGCTGGCCCGGGAGCTACGAGTGCAGGTGCCCGAGGCTTCCGCTCAGGCGAGG 1740
DB 1682 CCGAGAGCTGGCCCGGGAGCTACGAGTGCAGGTGCCCGAGGCTTCCGCTCAGGCGAGG 1741
QY 1741 ACGCGACGGCTCCACCTTCGCCCCGCAAGCCAGGAGCCCTGACCCACCCGCTGGGCGCT 1800
DB 1742 ACGCGACGG--TCCACCTTCGCCCCGCAAGCCAGGAGCCCTGACCCACCCGCT--GGCCCT 1798
QY 1801 TGGCCCAAGAGGACCGAGAGAGTGGAGAGTGGCGGTGGGGGCTGACGAGGCCAAGG 1860
DB 1799 TGGCCCAAGAGGACCGAGAGAGTGGAGAGTGGCGGTGGGGGCTGACGAGGCCAAGG 1858
QY 1861 AGGATTCAGAGCGGCAAGTCTCTCTGTTGCCCGACAGCAGGCGCTGCGCCACGTAGG 1920
DB 1859 AGGATTCAGAGCGGCAAGTCTCTCTGTTGCCCGACAGCAGGCGCTGCGCCACGTAGG 1918
QY 1921 GGCTCTGGCGCGCGCTGGACACCCCGACACCTGGCAGAGATGTCGCCCGATAAGACGG 1980
DB 1919 GGCTCTGGCGCGCGCTGGACACCCCGACACCTGGCAGAGATGTCGCCCGATAAGACGG 1978
QY 1981 ATTCTAAGG 1989
DB 1979 ATTCTAAGG 1987
```

RESULT 5

```
US-09-315-928-1
; Sequence 1, Application US/09315928
; Patent No. 6368796
; GENERAL INFORMATION:
; APPLICANT: Avraham, Hava
; APPLICANT: Groopman, Jerome E.
; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT OF
; TITLE OF INVENTION: BREAST CANCER
; FILE REFERENCE: NEDH97-01PAZ
; CURRENT APPLICATION NUMBER: US/09/315,928
; CURRENT FILING DATE: 1999-05-20
; PRIOR APPLICATION NUMBER: US 08/876,882
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: US 60/035,228
; PRIOR FILING DATE: 1997-01-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1987
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (263)...(1846)
US-09-315-928-1
Query Match 95.5%; Score 1909.8; DB 4; Length 1987;
Best Local Similarity 99.2%; Pred. No. 0;
```


APPLICANT: Jeffrey J. Seilhamer
 TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
 TITLE OF INVENTION: EXPRESSION
 NUMBER OF SEQUENCES: 1508
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 STREET: 3174 PORTER DRIVE
 CITY: PALO ALTO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 94304
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/023,655
 FILING DATE: HERewith
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Zeller, Karen J.
 REGISTRATION NUMBER: 37,071
 REFERENCE/DOCKET NUMBER: PA-0001 US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 855-0555
 TELEFAX: (650) 845-4166
 INFORMATION FOR SEQ ID NO: 1409:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1967 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 LIBRARY: GENEANK
 CLONE: g455449
 US-09-023-655-1409

Query Match	95.5%;	Scores	1909.8;	DB 4;	Length	1987;
Best Local Similarity	99.2%;	Pred. No. 0;				
Matches 1973;	Conservative	0;	Mismatches	7;	Indels	9;
Gaps	5					
Qy	1	CTCGCTCCAAAGTTCTGCAGCCGGGACACCGCCCTCGGGGTGTGCAGCCGCTCGCGGAGGCC	60			
Db	8	CTCGCTCCAAAGTTGTGCAGCCGGGACACCGCTTCGGGGTGTGCAGCCGCTCGCGGAGGCC	67			
Qy	61	TCTTGGGGGGGGCGCGGGGGCGGCTTCGGGGGGCGCCCTTGAGCAGAAACAGGAAGAAC	120			
Db	68	TCTTGGGGGGGGCGGGGGCGGCTTCGGGGGGCGCCCTTGAGCAGAAACAGGAAGAAC	127			
Qy	121	AGGCTTCGGTCCAGTGGCAACCCAGCTCCCTACTCTGTGTGCAGCCGCTTGGCTCTGTGCA	180			
Db	126	AGGCTTCGGTTCAGTGGGACCCAGCTCCCTACTCTGTGTGCAGCCGCTTGGCTCTGTGCA	187			
Qy	181	GGCCATTCCCAACGCTCCCGGACTGTGACACACTTGCCTAGTGTGCCTCTCACTGCGCTCAG	240			
Db	188	GGCCATTCCCAACGCTCCCGGACTGTGACACACTTGCCTAGTGTGCCTCTCACTGCGCTCAG	247			
Qy	241	TTTTCCTCTGGGGGGCGATGGCGGGGCGAGGCTCTCTGGTTTCCTTGGCGGGGCAATTTCAG	300			
Db	248	TTTTCCTCTGGGGGGCGATGGCGGGGCGAGGCTCTCTGGTTTCCTTGGCGGGGCAATTTCAG	305			
Qy	301	GCTGTGATTTCGCTGAGGAACTTTCCTCCGGGTGAGCCCGCGTTCCTTCGAGCGCTGGCAC	360			
Db	306	GCTGTGATTTCGCTGAGGAACTTTCCTCCGGGTGAGCCCGCGTTCCTTCGAGCGCTGGCAC	365			
Qy	361	CCCTTCCCGTCTACGCCAGGATGCCAAGAGCGCTTGGGCCCCCGGGCACCCAGTGTATCA	420			
Db	366	CCCTTCCCGTCTACGCCAGGATGCCAAGAGCGCTTGGGCCCCCGGGCACCCAGTGTATCA	425			

QY	421	CCAAATGCGAGCA	CA	CCCGCC	CCCAACCC	CAGGAGAGT	TGGCTT	CCGACAGGGCGA	CGTGG	480	
Db	426	CCAAATGCGAGCA	CA	CCCGCC	CCCAACCC	CAGGAGAGT	TGGCTT	CCGACAGGGCGA	CGTGG	485	
QY	481	TCACCATCT	TGGAGG	CGCT	TCGAGAA	CAAGAGCT	TGGTAC	CCGCGTCA	AGACCA	540	
Db	486	TCACCATCT	TGGAGG	CGCT	TCGAGAA	CAAGAGCT	TGGTAC	CCGCGTCA	AGACCA	545	
QY	541	GACAGAGG	GGCT	TGCT	TGGCAGCT	TGGGGCG	CGCT	TGGCGAG	CGGGAG	600	
Db	546	GACAGAGG	GGCT	TGCT	TGGCAGCT	TGGGGCG	CGCT	TGGCGAG	CGGGAG	605	
QY	601	CCAAAGCT	CAGCCT	CAT	CGCT	CGTGT	CCACGGG	AAGAT	CTCGGCG	CAAGAG	660
Db	606	CCAAAGCT	CAGCCT	CAT	CGCT	CGTGT	CCACGGG	AAGAT	CTCGGCG	CAAGAG	665
QY	661	AGTGT	CAGCCT	CCGAG	AGT	TGGCT	TCTGT	TGCGGG	AGT	CGCGCC	720
Db	666	AGTGT	CAGCCT	CCGAG	AGT	TGGCT	TCTGT	TGCGGG	AGT	CGCGCC	725
QY	721	ACTTAC	TCTGT	TCG	TGAGCT	TTTGG	CGCGAG	CACT	TCAC	TACCG	780
Db	726	ACTTAC	TCTGT	TCG	TGAGCT	TTTGG	CGCGAG	CACT	TCAC	TACCG	785
QY	781	ACGCGCA	CACT	CA	CAAT	CGAT	TAG	CGCGT	TTCT	TCTG	840
Db	786	ACGCGCA	CACT	CA	CAAT	CGAT	TAG	CGCGT	TTCT	TCTG	845
QY	841	ATTAC	AGAA	AG	CA	AGGG	CGTAT	CTG	AC	CAAGT	900
Db	846	ATTAC	AGAA	AG	CA	AGGG	CGTAT	CTG	AC	CAAGT	905
QY	901	GGAC	CAAGT	CGCG	CGAG	AG	AGCT	CGCC	AGGCG	GGCT	960
Db	906	GGAC	CAAGT	CGCG	CGAG	AG	AGCT	CGCC	AGGCG	GGCT	965
QY	961	TGACA	TTGG	AG	CACA	GAT	CG	AG	GGAG	TGTT	1020
Db	966	TGACA	TTGG	AG	CACA	GAT	CG	AG	GGAG	TGTT	1025
QY	1021	TGGGG	CAAA	AG	TGGCG	CT	CA	AG	AA	TAT	1080
Db	1026	TGGGG	CAAA	AG	TGGCG	CT	CA	AG	AA	TAT	1085
QY	1081	ACGAG	ACGG	CGCT	CAT	AC	CA	AG	AT	GCA	1140
Db	1086	ACGAG	ACGG	CGCT	CAT	AC	CA	AG	AT	GCA	1145
QY	1141	TCCT	GCA	AC	AG	GGCT	GT	CA	TG	AG	1200
Db	1146	TCCT	GCA	AC	AG	GGCT	GT	CA	TG	AG	1205
QY	1201	TTCT	TGCG	AG	CC	CGGG	CT	CG	T	GA	1260
Db	1206	TTCT	TGCG	AG	CC	CGGG	CT	CG	T	GA	1265
QY	1261	ACGT	TGCG	AG	GG	CA	TG	AG	AG	CA	1320
Db	1266	ACGT	TGCG	AG	GG	CA	TG	AG	AG	CA	1325
QY	1321	CCCG	CA	AT	CT	TG	CT	CA	AG	AG	1380
Db	1326	CCCG	CA	AT	CT	TG	CT	CA	AG	AG	1385
QY	1381	AAG	CCG	AG	CG	GA	AG	GG	CT	AG	1440
Db	1386	AAG	CCG	AG	CG	GA	AG	GG	CT	AG	1445
QY	1441	CT	CT	CA	AA	CA	CG	GA	AG	TT	1500
Db	1446	CT	CT	CA	AA	CA	CG	GA	AG	TT	1502

Db 900 CTTCTCAGCATTTGACATTTGGACACACAGATCGGAGGGGAGATTTGGAGCTTCTCTGCA 959
QY 1010 GGGTGAAGTACCTGGGCAAAAGTGGCCGTGAAGAATATCAAGTGTGATGACAGCCCA 1069
Db 960 GGGTGAAGTACCTGGGCAAAAGTGGCCGTGAAGAATATCAAGTGTGATGACAGCCCA 1019
QY 1070 GGGCTTCTGGAGACAGCCCGCTCATGAGAGATGCAACAGAGAACTGTGTGGTCT 1129
Db 1020 GGGCTTCTGGAGACAGCCCGCTCATGAGAGATGCAACAGAGAACTGTGTGGTCT 1079
QY 1130 CTTGGGCGTGTATCTGACACAGGGGTGTATTTGATCGAGCAGTGTAGCAAGGGCAA 1189
Db 1080 CTTGGGCGTGTATCTGACACAGGGGTGTATTTGATCGAGCAGTGTAGCAAGGGCAA 1139
QY 1190 CTTGGTGAATTTCTGCGGACCCGGGTGAGCCCTCGTGAACACCGCTCAGTCTCTGCA 1249
Db 1140 CTTGGTGAATTTCTGCGGACCCGGGTGAGCCCTCGTGAACACCGCTCAGTCTCTGCA 1199
QY 1250 GTTTTCTGTCAGTGGCCGAGGGCATGGAGTACCTGGAGAGCAAGAGCTTGTGACCG 1309
Db 1200 GTTTTCTGTCAGTGGCCGAGGGCATGGAGTACCTGGAGAGCAAGAGCTTGTGACCG 1259
QY 1310 CGACTGGCCGCCGCAACATCTGTTCTCAGAGGACCTGGTGGCCAAAGTCAAGCACTT 1369
Db 1260 CGACTGGCCGCCGCAACATCTGTTCTCAGAGGACCTGGTGGCCAAAGTCAAGCACTT 1319
QY 1370 TGGCTTGGCCAAAGCCGAGCGGAAGGGGTAGACTCAAGCCGCTGCCGTCAAGTGGAC 1429
Db 1320 TGGCTTGGCCAAAGCCGAGCGGAAGGGGTAGACTCAAGCCGCTGCCGTCAAGTGGAC 1379
QY 1430 GGGCCCGGAGGCTCTCAACACAGGGAAGTTCACAGCAAGTGGATGCTGGAATTTGG 1489
Db 1380 GGGCCCGGAGGCTCTCAACACAGGGAAGTTCACAGCAAGTGGATGCTGGAATTTGG 1439
QY 1490 GGTGCTGCTCTGGAGGCTCTTCATATGAGCGGGTCCGTACCTCAAAATGCACTGAA 1549
Db 1440 GGTGCTGCTCTGGAGGCTCTTCATATGAGCGGGTCCGTACCTCAAAATGCACTGAA 1499
QY 1550 AGAGGTGTGAGAGCCGTGAGAGGGGTACCCGNTGGAACCCCGAGGGCTGTCCAGG 1609
Db 1500 AGAGGTGTGAGAGCCGTGAGAGGGGTACCCGNTGGAACCCCGAGGGCTGTCCAGG 1559
QY 1610 CCCGTGACGCTCTCATGAGCAAGTGTCTGGAGGAGAGCCCGCGCCGCGCACCTT 1669
Db 1560 CCCGTGACGCTCTCATGAGCAAGTGTCTGGAGGAGAGCCCGCGCCGCGCACCTT 1619
QY 1670 CCGCAAACTGCCGAGAGCTGCCCGGAGCTACGAGTGCAGGTGCCCGAGCCTCCGT 1729
Db 1620 CCGCAAACTGCCGAGAGCTGCCCGGAGCTACGAGTGCAGGTGCCCGAGCCTCCGT 1679
QY 1730 CTGAGGGCAGGACGCGCGACCGCTTCAGCTGCCCGGAGCCGAGAGCCTGACCCCAACC 1789
Db 1680 CTGAGGGCAGGACGCGCGACCGCTTCAGCTGCCCGGAGCCGAGAGCCTGACCCCAACC 1739
QY 1790 GGTGGGCGCTTGGCCCGCAGAGACGAGAGGTGGAGGTGGCGGTGGGGGCACTGAC 1849
Db 1740 GGT- -GGCCCTTGGCCCGCAGAGACCGAGAGTGGAGAGTGGCGGTGGGGGCACTGAC 1797
QY 1850 CAGGCCCAAGAGAGGTCCAGCGCGGCAAGTCACTCTCTGTCGCCACACAGCAGGGGTGG 1909
Db 1798 CAGGCCCAAGAGAGGTCCAGCGCGGCAAGTCACTCTCTGTCGCCACACAGCAGGGGTGG 1857
QY 1910 CCACGTAAGGGGTCTTGGCGCGCCGTGGAACCCCGAGACCTTGGAGAGATGATCGCC 1969
Db 1858 CCACGTAAGGGGTCTTGGCGCGCCGTGGAACCCCGAGACCTTGGAGAGATGATCGCC 1917
QY 1970 GATAAAGACGATTCAGAGCTCT 1994
Db 1918 GATAAAGACGATTCAGAGCTCT 1942

US-08-604-989A-10
/ Sequence 10, Application US/08604989A
/ Patent No. 5834208
/ GENERAL INFORMATION:
/ APPLICANT: Sakano, S.
/ TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
/ NUMBER OF SEQUENCES: 11
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Pennie & Edmonds LLP
/ STREET: 1155 Avenue of the Americas
/ CITY: New York
/ STATE: New York
/ COUNTRY: USA
/ ZIP: 10036-2711
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/604,989A
/ FILING DATE: February 23, 1996
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Charles E. Miller
/ REGISTRATION NUMBER: 24,576
/ REFERENCE/DOCKET NUMBER: 1920-026
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (212) 790-9090
/ TELEFAX: (212) 869-8864/9741
/ TELEX: 66141 PENNIE
/ INFORMATION FOR SEQ ID NO: 10:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1521 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA to mRNA
/ ORIGINAL SOURCE:
/ ORGANISM: human
/ STRAIN: UT-7
/ US-08-604-989A-10

Query Match 76.0%; Score 1519.4; DB 2; Length 1521;
Best Local Similarity 99.9%; Pred. No. 1.5e-302;
Matches 1520; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 258 ATGGCGGGCGGAGGCTCTCTGGTTTCCTGGCGGGCATTTCAAGGCTGTGATTTCTGTGAG 317
Db 1 ATGGCGGGCGGAGGCTCTCTGGTTTCCTGGCGGGCATTTCAAGGCTGTGATTTCTGTGAG 60
QY 318 GAATTTCCCGGGTGAAGCCCGCTTCCTCCGAGCCTGGACCCCTCCCGTCTCAGCC 377
Db 61 GAATTTCCCGGGTGAAGCCCGCTTCCTCCGAGCCTGGACCCCTCCCGTCTCAGCC 120
QY 378 AGATGCCAACAGAGCGCTGGCCCGCGGACCCAGTGTATCACCAAAATGCCAGACACC 437
Db 121 AGATGCCAACAGAGCGCTGGCCCGCGGACCCAGTGTATCACCAAAATGCCAGACACC 180
QY 438 CGCCCCAAGCCAGGGAGCTGGCTTTCCGCAAGGGGCAAGTGTACCATCTCTGGAGGCC 497
Db 181 CGCCCCAAGCCAGGGAGCTGGCTTTCCGCAAGGGGCAAGTGTACCATCTCTGGAGGCC 240
QY 498 TCGGAGAACAAAGAGTGTGTACCGGTCAAGACACACACAGTGGACAGAGGGGCTGTG 557
Db 241 TCGGAGAACAAAGAGTGTGTACCGGTCAAGACACACACAGTGGACAGAGGGGCTGTG 300
QY 558 GAGGCTGGGGCGCTCGGGAGCGGGAGGCCCTCTCCGACAGCCCAAGCTCAGCCTCATG 617
Db 301 GAGGCTGGGGCGCTCGGGAGCGGGAGGCCCTCTCCGACAGCCCAAGCTCAGCCTCATG 360
QY 618 CGGTGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGGTGAGCCTCCCGAG 677

Db 361 CCGTGGTTCCACGGGAAGATCTGGGCCAGGAGGCTGTCCAGCAGCTGCAGCCTCCCGAG 420
Qy 678 GATGGCTGTTCTGTGTCGGAGTCCGGCGCCACCCCGGCGACTACGTCCTGTCTGG 737
Db 421 GATGGCTGTTCTGTGTCGGAGTCCGGCGCCACCCCGGCGACTACGTCCTGTCTGG 480
Qy 738 AGCTTTGGCGGAGCTGTCACACTACCGGCTGCTGCACCGGACCGCCACCTTCAATC 797
Db 481 AGCTTTGGCGGAGCTGTCACACTACCGGCTGCTGCACCGGACCGCCACCTTCAATC 540
Qy 798 GATGAGCCCGTGTCTTCTGCAACCTCATGGACATGGTGGAGCATTTACGCAAGCAAG 857
Db 541 GATGAGCCCGTGTCTTCTGCAACCTCATGGACATGGTGGAGCATTTACGCAAGCAAG 600
Qy 858 GGGCTATTCGACCAAGCTGTGACACCAACCGGACCGGACCAAGTCCGCGGAG 917
Db 601 GGGCTATTCGACCAAGCTGTGACACCAACCGGACCGGACCAAGTCCGCGGAG 660
Qy 918 GAGGAGTGGCCAGGCGGCGTGTACTGAACCTGCAGCATTTGACATTTGGGAGACAG 977
Db 661 GAGGAGTGGCCAGGCGGCGTGTACTGAACCTGCAGCATTTGACATTTGGGAGACAG 720
Qy 978 ATCGGAGGAGGAGTTTGGAGCTGTCTGACAGGCTGAGTACCTGGGGCAAAAGTGGCC 1037
Db 721 ATCGGAGGAGGAGTTTGGAGCTGTCTGACAGGCTGAGTACCTGGGGCAAAAGTGGCC 780
Qy 1038 GTCAAGATATCAAGTGTGTGTGACAGCCAGCCCTCTCTGACGAGAGCGGCTCATG 1097
Db 781 GTCAAGATATCAAGTGTGTGTGACAGCCAGCCCTCTCTGACGAGAGCGGCTCATG 840
Qy 1098 ACAGAGATGCAACAGGAACTGTGTCTCTGGGCGGTGATCTCTGACACAGGCGCTG 1157
Db 841 ACAGAGATGCAACAGGAACTGTGTCTCTGGGCGGTGATCTCTGACACAGGCGCTG 900
Qy 1158 TACATTTCTATGGAGCAGTGTGACAAAGGCAACCTGTGTGAACCTTCTGCGAACCCGGGT 1217
Db 901 TACATTTCTATGGAGCAGTGTGACAAAGGCAACCTGTGTGAACCTTCTGCGAACCCGGGT 960
Qy 1218 CGAGCCCTCTGTAACACCGCTCAGCTCTGAGTTTCTCTGACGCTGGCGGAGGATG 1277
Db 961 CGAGCCCTCTGTAACACCGCTCAGCTCTGAGTTTCTCTGACGCTGGCGGAGGATG 1020
Qy 1278 GAGTACCTGGAGACAGAGCTGTGACCGGAGCTGGCGGCGGCAACATCTCTGCTC 1337
Db 1021 GAGTACCTGGAGACAGAGCTGTGACCGGAGCTGGCGGCGGCAACATCTCTGCTC 1080
Qy 1338 TCAGAGACCTTGGTGGCCAAAGTCAGGACTTTGGCTTGGCCAAAGCCGAGCGGAGGG 1397
Db 1081 TCAGAGACCTTGGTGGCCAAAGTCAGGACTTTGGCTTGGCCAAAGCCGAGCGGAGGG 1140
Qy 1398 CTAGACTCAGCCGCTGCGGCTCAAGTGAACGCGGCGCGGAGGCTTCAACACGCGGAG 1457
Db 1141 CTAGACTCAGCCGCTGCGGCTCAAGTGAACGCGGCGCGGAGGCTTCAACACGCGGAG 1200
Qy 1458 TTCAACAGCAGTCCGAGTGTCTGAGTTTGGGTGTCTGCTGGGAGGTCTTCTCATAT 1517
Db 1201 TTCAACAGCAGTCCGAGTGTCTGAGTTTGGGTGTCTGCTGGGAGGTCTTCTCATAT 1260
Qy 1518 GGACGGCTCCGTACCCCTAAATGTCACTGAAGAGGTGTGGAGGCGCTGGAGAGGGG 1577
Db 1261 GGACGGCTCCGTACCCCTAAATGTCACTGAAGAGGTGTGGAGGCGCTGGAGAGGGG 1320
Qy 1578 TACCGCATGGAACCCCGCGGAGGTGTGACGCGGCGGCGGAGGCTTCTCATGAGAGCTGC 1637
Db 1321 TACCGCATGGAACCCCGCGGAGGTGTGACGCGGCGGCGGAGGCTTCTCATGAGAGCTGC 1380
Qy 1638 TGGGAGCAGACCCCGCGGCGGAGGTGTGACGCGGCGGCGGAGGCTTCTCATGAGAGCTGC 1697
Db 1381 TGGGAGCAGACCCCGCGGCGGAGGTGTGACGCGGCGGCGGAGGCTTCTCATGAGAGCTGC 1440
Qy 1698 GAGCTACGAGTGCAGGTGCGGCGGAGGTGTGACGCGGCGGCGGAGGCTTCTCATGAGAGCTGC 1757
Db 1441 GAGCTACGAGTGCAGGTGCGGCGGAGGTGTGACGCGGCGGCGGAGGCTTCTCATGAGAGCTGC 1500

Qy 1758 TCGCCCCGAAGCAGGAGGCC 1778
Db 1501 TCGCCCCGAAGCAGGAGGCC 1521

RESULT 9

US-08-604-989A-9
; Sequence 9, Application US/08604989A
; Patent No. 5834208
; GENERAL INFORMATION:
; APPLICANT: Sakano, S.
; TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Bcmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MED.UM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/604,989A
; FILING DATE: February 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Charles E. Miller
; REGISTRATION NUMBER: 24,576
; REFERENCE/DOCKET NUMBER: 1920-026
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 56141 PENNIE
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1398 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: human
; STRAIN: UT-7
US-08-604-989A-9

Query Match 69.9%; Score 1398; DB 2; Length 1398;
Best Local Similarity 100.0%; Pred. No. 1.le-277;
Matches 1398; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 381 ATGCCAACGAGGCGCTGGGCGCGGCGCACCCAGTGTATCACCAATCGGAGCACACCGC 440
Db 1 ATGCCAACGAGGCGCTGGGCGCGGCGCACCCAGTGTATCACCAATCGGAGCACACCGC 60
Qy 441 CCCAAGCCAGGAGCTGCTTCCGCAAGGGCGACGTTGTCACCATCTCTGGAGGCTGC 500
Db 61 CCCAAGCCAGGAGCTGCTTCCGCAAGGGCGACGTTGTCACCATCTCTGGAGGCTGC 120
Qy 501 GAGAACAGAGCTGTTACCGCTCAGACACACACAGTGTGACAGGAGGCGCTGCTGCA 560
Db 121 GAGAACAGAGCTGTTACCGCTCAGACACACACAGTGTGACAGGAGGCGCTGCTGCA 180
Qy 561 GCTGGGCGCTGGGGAGCGGGAGGCGCTCTCCGACAGCCCAAGCTCAGCTCATCGC 620
Db 181 GCTGGGCGCTGGGGAGCGGGAGGCGCTCTCCGACAGCCCAAGCTCAGCTCATCGC 240
Qy 521 TGGTTCCACGGGAGATCTCGGCGCAGGAGGCTGTCCAGAGCTGACAGCTCCCGAGGAT 680
Db 241 TGGTTCCACGGGAGATCTCGGCGCAGGAGGCTGTCCAGAGCTGACAGCTCCCGAGGAT 300

QY 681 GGGCTGTCTCTGTGGGAGTCCGCGGCAACCCGGCGACTACGTCCTGTGCGTGAGC 740
DB 301 GGGCTGTCTCTGTGGGAGTCCGCGGCAACCCGGCGACTACGTCCTGTGCGTGAGC 360
QY 741 TTTGGCGGAGCTCATCTCACTACCGCTGCTGACCGGACCGGCACCTCACAACTCGAT 800
DB 361 TTTGGCGGAGCTCATCTCACTACCGCTGCTGACCGGACCGGCACCTCACAACTCGAT 420
QY 801 GAGCGCGTGTCTCTGCAACCTCATGACATGCTGGAGCATTTACAGCAAGGCAAGGCG 860
DB 421 GAGCGCGTGTCTCTGCAACCTCATGACATGCTGGAGCATTTACAGCAAGGCAAGGCG 480
QY 861 GCTATCTGCACCAAGCTGTGACCAAGCGGAACACCGGACCAAGTCCGCGGAGGAG 920
DB 481 GCTATCTGCACCAAGCTGTGACCAAGCGGAACACCGGACCAAGTCCGCGGAGGAG 540
QY 921 GAGCTGGCAGGCGGCGCTGTTACTGAACCTGACATTTGAGCATTTGGAGCACAGATC 980
DB 541 GAGCTGGCAGGCGGCGCTGTTACTGAACCTGACATTTGAGCATTTGGAGCACAGATC 600
QY 981 GGAGCGGAGGTTTGGAGTGTCTGAGGCTGTCTGAGGCTGAGTACCTGGGCAAAAGTGGCGGTG 1040
DB 601 GGAGCGGAGGTTTGGAGTGTCTGAGGCTGTCTGAGGCTGAGTACCTGGGCAAAAGTGGCGGTG 660
QY 1041 AAGAAATATCAAGTGTGATGTGACAGCCAGGCGCTTCTGACAGAGCGGCGTCAATGAG 1100
DB 661 AAGAAATATCAAGTGTGATGTGACAGCCAGGCGCTTCTGACAGAGCGGCGTCAATGAG 720
QY 1101 AAGATGCAACACAGAACCTGTGTGCTCTGCGGTGATCTGTCACAGAGGCGTGTAC 1160
DB 721 AAGATGCAACACAGAACCTGTGTGCTCTGCGGTGATCTGTCACAGAGGCGTGTAC 780
QY 1161 ATTGTATGAGGACGCTGTGACAGGCAACCTGTGAACTTTCTGCGGACCCGGGTGCA 1220
DB 781 ATTGTATGAGGACGCTGTGACAGGCAACCTGTGAACTTTCTGCGGACCCGGGTGCA 840
QY 1221 GCCTCGTGAACACCGCTGAGTCTGTCAGTGTCTCTGACGTCGCGGCGGCAATGGAG 1280
DB 841 GCCTCGTGAACACCGCTGAGTCTGTCAGTGTCTCTGACGTCGCGGCGGCAATGGAG 900
QY 1281 TACCTGGAGGCAAGAGCTGTGCAACGCGACTGTGCGCGCGCGCAACATCTGTGTCTCA 1340
DB 901 TACCTGGAGGCAAGAGCTGTGCAACGCGACTGTGCGCGCGCGCAACATCTGTGTCTCA 960
QY 1341 GAGGACCTGTGTCGCAAGGTTCAGCGACTTTGGCTTGCCCAAGCCGAGCGGAAGCGGCTA 1400
DB 961 GAGGACCTGTGTCGCAAGGTTCAGCGACTTTGGCTTGCCCAAGCCGAGCGGAAGCGGCTA 1020
QY 1401 GACTCAGCCGCTGCGGCTCAAGTGGACGCGCGCGGAGGCTCTCAACACGCGGAGTTC 1460
DB 1021 GACTCAGCCGCTGCGGCTCAAGTGGACGCGCGCGGAGGCTCTCAACACGCGGAGTTC 1080
QY 1461 ACCAGCAAGTCCGATGTCTGAGTGTGCGGTGTCTCTGCGAGGTCTTCTCATATGGA 1520
DB 1081 ACCAGCAAGTCCGATGTCTGAGTGTGCGGTGTCTCTGCGAGGTCTTCTCATATGGA 1140
QY 1521 CGGCTCCGTAACCTAAATGTCACTGAAGAGGTGTGCGAGCGCGGTGGAAGAGGCGTAC 1580
DB 1141 CGGCTCCGTAACCTAAATGTCACTGAAGAGGTGTGCGAGCGCGGTGGAAGAGGCGTAC 1200
QY 1581 CGCATGGAACCCCGAGGAGCTGTCCAGGCGCGGTGTCACGTCCTCATGAGCAGCTGCTGG 1640
DB 1201 CGCATGGAACCCCGAGGAGCTGTCCAGGCGCGGTGTCACGTCCTCATGAGCAGCTGCTGG 1260
QY 1641 GAGGCAAGCCCGCGCGGCAACCTTCCGAAACTGCGCCGAGAGCTGGCCCGGAG 1700
DB 1261 GAGGCAAGCCCGCGCGGCAACCTTCCGAAACTGCGCCGAGAGCTGGCCCGGAG 1320
QY 1701 CTAGGAGTGCAGTGTGCGGCGGCGCTCTGAGGCGAGGACCGGAGCGGCTCCAGCTCG 1760
DB 1321 CTAGGAGTGCAGTGTGCGGCGGCGCTCTGAGGCGAGGACCGGAGCGGCTCCAGCTCG 1380

QY 1761 CCCGAGGCGGAGGCC 1778
DB 1381 CCCGAGGCGGAGGCC 1398
RESULT 10
US-09-741-154-1
; Sequence 1, Application US/09741154
; Patent No. 6437110
; GENERAL INFORMATION:
; APPLICANT: BRASLEY, Ellen M. et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001061
; CURRENT APPLICATION NUMBER: US/09/741,154
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1713
; TYPE: DNA
; ORGANISM: Human
US-09-741-154-1

Query Match 68.8%; Score 1377; DB 4; Length 1713;
Best Local Similarity 99.3%; Pred. No. 2.3e-273;
Matches 1383; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 608 CAGCCTCATGCGTGTGTTCCACGGGAAGATCTCGGCGCAGGAGGCTGTCCAGCAGCTGCA 667
DB 297 CAGCAGCTTCTGTGTTCCACGGGAAGATCTCGGCGCAGGAGGCTGTCCAGCAGCTGCA 356
QY 668 GCCTCCGAGGATGGCTCTTCTGTGCGGAGTCCGCGCGCACCCCGCGGACTACGT 727
DB 357 GCCTCCGAGGATGGCTCTTCTGTGCGGAGTCCGCGCGCACCCCGCGGACTACGT 416
QY 728 CTTGTGCTGAGCTTTGGCGGAGAGTCACTACGCGGTGCTGACCGGACCGGCA 787
DB 417 CTTGTGCTGAGCTTTGGCGGAGAGTCACTACGCGGTGCTGACCGGACCGGCA 476
QY 788 CTTCAATATCGATGAGGCGGTGTTCTCTGCAACCTCATGAGCATGCTGGAGCATTTACAG 847
DB 477 CTTCAATATCGATGAGGCGGTGTTCTCTGCAACCTCATGAGCATGCTGGAGCATTTACAG 536
QY 848 CAAGGCAAGGCGGCTATCTGCAACAGCTGTGAGACCAAAACCGGAAACACGGGACCA 907
DB 537 CAAGGCAAGGCGGCTATCTGCAACAGCTGTGAGACCAAAACCGGAAACACGGGACCA 596
QY 908 GTGCGCGGAGGAGGCTGGCCAGGCGGCTGGTTACTTGACCTGACGATTTGACAT 967
DB 597 GTGCGCGGAGGAGGCTGGCCAGGCGGCTGGTTACTTGACCTGACGATTTGACAT 656
QY 968 GGGAGCACAGATCGGAGGAGGAGTTTGGAGCTGTCTGCGAGGTGAGTACCTGGGCGCA 1027
DB 657 GGGAGCACAGATCGGAGGAGGAGTTTGGAGCTGTCTGCGAGGTGAGTACCTGGGCGCA 716
QY 1028 AAGGTGGCGGTGAGAGATATGACATGTGATGTGACAGCCCGGCTTCTGTGAGACGAGAC 1087
DB 717 AAGGTGGCGGTGAGAGATATGACATGTGATGTGACAGCCCGGCTTCTGTGAGACGAGAC 776
QY 1088 GGCCTGTCATGACGAGATGCAACAGAGACCTGGTGGCTCTCTGGGCGGTGATCTGCA 1147
DB 777 GGCCTGTCATGACGAGATGCAACAGAGACCTGGTGGCTCTCTGGGCGGTGATCTGCA 836
QY 1148 CCAGGCGCTGTACATTTGATGAGGACAGTGAAGGCAACCTGTTGAACTTTCTGCG 1207
DB 837 CCAGGCGCTGTACATTTGATGAGGACAGTGAAGGCAACCTGTTGAACTTTCTGCG 896
QY 1208 GACCGCGGCTGAGGCGCTCGTGAACACCGCTCAGCTCTGCAAGTCTTCTGCAAGTGC 1267
DB 897 GACCGCGGCTGAGGCGCTCGTGAACACCGCTCAGCTCTGCAAGTCTTCTGCAAGTGC 956

Db 661 GTGCACTGCTCATGAGCAGCTGCTGGAGGAGAGCCGCGCGCCACCTTCGCG 720
Qy 1674 AAAGTGGCGGAGAGCTG 1691
Db 721 AAGTGGCGGAGAGCTG 738
RESULT 12
US-09-023-655-1267
; Sequence 1267, Application US/09023655
; Patent No 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1267:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2187 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g30255
US-09-023-655-1267
Query Match 27.4%; Score 547.6; DB 4; Length 2187;
Best Local Similarity 64.9%; Pred. No. 1.9e-103;
Matches 845; Conservative 0; Mismatches 449; Indels 9; Gaps 2;
Qy 395 CTGGGCCCCGGGACCCAGTGTATCCAAATGGGAGCACCCGCCCCCAGCCAGGGGA 454
Db 154 CTGGCCATCCGGTACAGAAATGTATGCCAAGTACAACTTCCACGGCACTGCCGAGCAGGA 213
Qy 455 GCTGGCCTCCGCAAGGGGAGGTGTCACCATCTCGGAGGCTGGAGAACCAAGAGCTG 514
Db 214 CTTGCCCTTCTGCMAAGAGAGCTGTCTACCAATTTGGCCGTACCAAGACCCCACTG 273
Qy 515 GTACCGCGTCAAGCACACACACAGTGGAGAGGGGGCTCTGCGCAGCTGGGCGGTGG 574
Db 274 GTACAAAGCA--AAACAAAGGTGGCCGTGGAGGCAATCATCCAGCCCAACTACGTCCA 330

Qy 575 GGAGGGAGAGCCCTCTCCGCGAGACCCCAAGCTCAGCTCATGCCGTGTTCCACGGGA 634
Db 331 GAAGCGGAGAGGCGTGAAGGGGGTACCAAACTCAGCTCATGCCCTCATGCCCTCCACGGGA 390
Qy 635 CATCTCGGGCCAGGAGGCTGTCCAGCAGCTCCCGAGGATGGGCTTTCTCTGCT 694
Db 391 GATCACACGGGAGCAGGCTGAGCGCTTCTGTACCCGCGGAGACAGGCTGTCTCTGCT 450
Qy 695 GCGGAGTCCGCGCGCACCAGGGGAGTACGTCCTGTGCTGAGCTTTGGCGGAGCT 754
Db 451 GCGGAGAGACCAACTACCCCGGAGACTACGCTGTGCTGAGCTCCGAGCGCAAGT 510
Qy 755 CATCACTACCGGCTGTGTCACCGGAGCGGCACTCAATTCGATGAGGCGCTTCTT 814
Db 511 GGAGCCTACCGCACTCACTGATCCAGCAGCTCAGCTCAGCAGGAGGCTGCTACT 570
Qy 815 CTGAACCTCATGACATGGTGGAGCATTAAGCAAGCAAGGCGCTATCTGCACCA 874
Db 571 TGAGAACTCATGACGCTGGTGGAGCACTACCTTCAGACGCACTGCTGTACCG 630
Qy 875 GCTGTGAGACCAAGCGGAAACACGGGACCAAGTCCGCGGAGGAGGCTGGCCAGGG 934
Db 631 CTTCAATTAAACCAAGGCTCATGGAGGCACTGTCGCGCGCCAGGATGAGTCTACCG 690
Qy 935 GGGCTGCTTACTGAACCTTCGAGCATTTGCATTTGGAGCAGACAGATCGGAGAGGAGT 994
Db 691 GGGCTGGGCGCTGAACATGAAGGAGCTGAGCTGTCAGACCACTCGGAGAGGAGT 750
Qy 995 TGGAGCTGTCTGTCAGGCTGAGTACCTGGGCAAGAGTGGCGTGAAGATATCAAGT 1054
Db 751 CGGAGACGTGATGCTGGCGGATTAACGAGGGAACAAGTCCGCTCAAGTGCATTAGAA 810
Qy 1055 TGATGTGACGCCAGGCTTCTCGGAGAGCGGCTCATGACGAGATGCAACCA 1114
Db 811 CGACGCCACTGCCAGGCTTCTCGCTGAAGCCTCAGTCATGACGCACTCGGCACTAG 870
Qy 1115 GAACCTGTGCTCTCTGGGCGTATCTGTGACCAAG-----GGGCTGTATCTGTCT 1168
Db 871 CAACCTGTGTGAGCTCTCTGGGCGTATCTGTGAGGAGAGGCGGCTCTACATGCTAC 930
Qy 1169 GGAGCACTGTGAGCAAGGGCACTGTGTGAATCTTTCTGGGACCCGGGGTGGAGCTCT 1228
Db 931 TGAGTACATGGCCAAAGGGAGGCTTGTGACTACCTCGCTGTAGGGGTCTGCTGCT 990
Qy 1229 GAACACCGCTCAGCTCTCTGAGTCTCTGTGACCTGGCGGAGGAGGCTGAGTACCTGA 1288
Db 991 GGGCGGAGACTGTCTCTCAAGTCTGTGCTAGTGTCTCGAGGCGCATGAAATACCTGA 1050
Qy 1289 GAGCAAGAGCTTGTGACCGGCACTGGCGCGCCGCAACATCCTGCTCTCAGAGACCT 1348
Db 1051 GGGCAACAATTTCTGTGCTGAGAGCTGTGCTGCTGCTGCTGTCTGTGAGGACAA 1110
Qy 1349 GGTGGCCAAAGTTCAGGACTTTGGGCTGGCCAAAGCCGAGGAGGAGGCTGAGCTCAAG 1408
Db 1111 CGTGGCCAAAGTTCAGGACTTTGGTCTCACCAGGAGGCGCTCCAGCACCCAGGACAGG 1170
Qy 1409 CCGCTGCGCGCTCAAGTGAAGCGCGCGCGAGCTCTCAACACGGGAGGTTCAACAGCAA 1468
Db 1171 CAAGTTCGCGAGTCAAGTGAAGCGCGCTGAGGCGCTGAGAGAGAGAAATTTCTCCACTAA 1230
Qy 1469 GTCGGATGTCTGGAGTTTGGGCTGTGCTCTGGGAGGCTTCTCATATGAGCGGCTCC 1528
Db 1231 GTCTGAGCTGTGGAGTTTCGGATCTTCTCTGGGAATCTACTCTCTTTGGCGAGTGC 1290
Qy 1529 GTACCTCAAAATGTCTCAAAAGAGGTTCGGAGGCGCTGGAGAGGAGGCTACCGATGA 1588
Db 1291 TTATCCAGAAATTCCTCAAGGAGCTGCTCTCGGTTGGAGAGGCTTACAGATGA 1350
Qy 1589 ACCCGCGAGGCTGTCCAGGCGCGCTGCACTGCTCATGAGCAGCTGTGGGAGGACGA 1648
Db 1351 TGCCCCGAGCGCTGCCCCCGCGAGTCTATGAAGTCAATGAAGTGTGGCACTGTGGCACT 1410
Qy 1649 GCGCGCGCGCGCGCACTCTCCGCAAACTGGCGCGAGAGCTGG 1692

US-09-741-154-3

```
Query Match      22.8%; Score 455; DB 4; Length 16389;
Best Local Similarity 100.0%; Pred.No. 2.5e-84;
Matches 455; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1541 GTCACGTGAAGAGGTGTCGAGGCGCTGAGAGGGGTACCGCATGGAACCCCGGAGGG 1600
Db 13941 GTCACGTGAAGAGGTGTCGAGGCGCTGAGAGGGGTACCGCATGGAACCCCGGAGGG 14000

QY 1601 CNGTCCAGGCCCGTGCAGCTCCTCATGACAGCTGCTGGAGGCGAGACCCCGCGCGG 1650
Db 14001 CNGTCCAGGCCCGTGCAGCTCCTCATGACAGCTGCTGGAGGCGAGACCCCGCGCGG 14060

QY 1661 GGCACCTTCCCAACTGCGGAGAGCTGCGCGGAGCTACGACGTGAGGTGCGCC 1720
Db 14061 GGCACCTTCCCAACTGCGGAGAGCTGCGCGGAGCTACGACGTGAGGTGCGCC 14120

QY 1721 AGCCTCCGCTCAGGCGAGACCGCGACCGCTCCACCTCGCCCGGAGGAGCCCTG 1780
Db 14121 AGCCTCCGCTCAGGCGAGACCGCGACCGCTCCACCTCGCCCGGAGGAGCCCTG 14180

QY 1781 ACCCACCCGGTGGGCGCTTGGCCCGGAGAGACCGAGAGTGGAGAGTGGCGGTGG 1840
Db 14181 ACCCACCCGGTGGGCGCTTGGCCCGGAGAGACCGAGAGTGGAGAGTGGCGGTGG 14240

QY 1841 GGCACGTGACCGGCCCGGAGAGGCTCAGCGGGCAAGTCATCTCTGTCGCCACAGC 1900
Db 14241 GGCACGTGACCGGCCCGGAGAGGCTCAGCGGGCAAGTCATCTCTGTCGCCACAGC 14300

QY 1901 AGGGGCTGCCACAGTAGGGGCTCTGGGGCGCGCTGGACACCCCGAGACCTGCGAAGGA 1960
Db 14301 AGGGGCTGCCACAGTAGGGGCTCTGGGGCGCGCTGGACACCCCGAGACCTGCGAAGGA 14360

QY 1961 TGATGCCCGATTAAGACCGATTCTAAGACTCTA 1995
Db 14361 TGATGCCCGATTAAGACCGATTCTAAGACTCTA 14395
```

RESULT 15

```
US-09-604-989A-7
; Sequence 7, Application US/08604989A
; Patent No. 5834208
; GENERAL INFORMATION:
; APPLICANT: Sakano, S.
; TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/604,989A
; FILING DATE: February 23, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Charles E. Miller
; REGISTRATION NUMBER: 24,576
; REFERENCE/DOCKET NUMBER: 1920-026
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-5090
; TELEFAX: (212) 669-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
```

```
; LENGTH: 225 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: human
; STRAIN: UT-7
; US-09-604-989A-7
```

```
Query Match      11.2%; Score 225; DB 2; Length 225;
Best Local Similarity 100.0%; Pred.No. 1.5e-37;
Matches 225; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 621 TGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGACAGCTGACAGCTCCCGAGGAT 680
Db 1 TGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGACAGCTGACAGCTCCCGAGGAT 60

QY 681 GGGCTGTTCCTGGTGCAGGAGTCCGCGCGCCACCCGCGGACTAGTCTCTGTGCGTGAGC 740
Db 61 GGGCTGTTCCTGGTGCAGGAGTCCGCGCGCCACCCGCGGACTAGTCTCTGTGCGTGAGC 120

QY 741 TTGSCCGCGACGTTCATCCACTACCGCTGTGTGCAACCGGACGGCCAACTCAATCGAT 800
Db 121 TTGSCCGCGACGTTCATCCACTACCGCTGTGTGCAACCGGACGGCCAACTCAATCGAT 180

QY 801 GAGGCCGTGTCTTCTGCAACCTCATGACATGGTGGAGCATTAC 845
Db 181 GAGGCCGTGTCTTCTGCAACCTCATGACATGGTGGAGCATTAC 225
```

Search completed: May 21, 2004, 09:09:48
Job time : 160 secs